

Board of Education Agenda Item

Item: _____ H. _____

Date: May 21, 2008

Topic: First Review of a Proposal to Establish a Governor's Career and Technical Academy: Governor's Academy for Innovation, Technology, and Engineering (GAITE)

Presenter: Dr. Linda M. Wallinger, Assistant Superintendent for Instruction
Mr. Joseph Johnson III, Executive Director of New Horizons Regional Education Centers

Telephone Number: (804) 225-2034
(757) 766-0000

E-Mail Address: linda.wallinger@doe.virginia.gov
jjohnson@nhrec.org

Origin:

Topic presented for information only (no board action required)

Board review required by
 State or federal law or regulation
 Board of Education regulation

Other: Process for Initiating a Governor's Career and Technical Academy Approved by the Board of Education on November 29, 2007

Action requested at this meeting Action requested at future meeting: _____ (date)

Previous Review/Action:

No previous board review/action

Previous review/action

Date _____

Action _____

Background Information:

Virginia is one of six states to receive a grant from the National Governors Association (NGA) Center for Best Practices to improve science, technology, engineering, and mathematics (STEM) education. The development of Governor's Career and Technical Academies is one of the major initiatives of the grant.

Virginia's Governor's Career and Technical Academies are programs designed to expand options for the general student population to acquire science, technology, engineering and mathematics (STEM) literacy and other critical skills, knowledge and credentials that will prepare them for high-demand, high-wage and high-skill careers. Partnerships establishing academies must include at least one public school division, business and industry, and postsecondary education. Six partnerships have been awarded grants to assist with the creation of Virginia's first Governor's Career and Technical Academies.

On November 29, 2007, the Board of Education approved the criteria to establish a Governor's Career and Technical Academy. Subsequently, on March 19, 2008, the Board approved the standards for the Governor's Career and Technical Education Exemplary Standards Awards Program, in which all Career and Technical Academies must participate.

As required by the Board of Education, the State Council of Higher Education in Virginia (SCHEV) has reviewed the attached proposal and recommends that the Board approve the proposal. Staff at the Virginia Department of Education (DOE) have also reviewed the proposal in the context of the Board's criteria. An executive summary of the proposal is contained in Attachment A. Attachments B and C contain the reports from the reviews by SCHEV and the DOE. Attachment D contains the complete proposal.

Summary of Major Elements

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will focus on the STEM career cluster with career pathways in engineering technologies, particularly electrical engineering technology and mechanical engineering technology. GAITE will establish a regional enrichment program that will include Engineering Technology Exploratory Saturdays (seventh and eighth grades) and Engineering Technology Summer Camp (ninth and tenth grades). The academic year GAITE program in grades 11 and 12 will be called an Academy for Engineering Technology. Together, these three components of GAITE will seek to inspire, recruit, and train students to pursue postsecondary degree(s) and occupations in electrical and mechanical engineering technology.

The proposal documents the existence of an active partnership consisting of representation from six public school division(s), higher education, and business and industry. A fiscal agent has been designated. GAITE will be facilitated by New Horizons Regional Education Centers (NHREC) while programs will be provided within divisional high schools, at NHREC or Thomas Nelson Community College, or through distance learning.

Superintendent's Recommendation:

The Superintendent of Public Instruction recommends that the Board of Education waive first review and approve the proposal to establish the Governor's Academy for Innovation, Technology and Engineering.

Impact on Resources:

New Horizons Regional Centers received a planning grant through Virginia's participation in the National Governors Association's STEM Center Grant Program. Upon approval of the partnership's proposal by the Board of Education, the Department of Education will award an implementation grant to assist with further development of the program. The planning and implementation grant funds are available on a one-time basis only to the six partnerships that were selected through a grant competition associated with the National Governors Association's STEM Center Grant Program. Funding beyond that available through the grant must be provided at the local level.

Timetable for Further Review/Action:

Governor's Career and Technical Academies funded through the National Governors Association's STEM Center Grant Program must be in operation by the beginning of the 2008-2009 academic year.

Governor's Academy for Innovation, Technology and Engineering
Executive Summary
May 21, 2008

Partnership Members: New Horizons Regional Education Centers (NHREC); Greater Peninsula Public School Divisions: Gloucester County; Hampton City; Newport News City; Poquoson City; Williamsburg-James City County; York County; Thomas Nelson Community College (TNCC); Old Dominion University (ODU); Virginia Space Grant Consortium; Northrop Grumman Corporation; The Apprenticeship School of Northrop Grumman; Cooperating Hampton Roads Organization for Minorities in Engineering (CHROME); Peninsula Council for Workforce Development; Peninsula Workforce Investment Board; and Peninsula Technical Preparation

Lead Entity: New Horizons Regional Education Centers (NHREC)

Fiscal Agent: Hampton City Public Schools

Contact Person: Mr. J. Joseph Johnson, Executive Director
New Horizons Regional Education Centers
757-766-0000
jjohnson@nhrec.org

Academy Location: STEM Academy
520 Butler Farm Road
Hampton, VA 23666

Number Students Served: Seventh and eighth grade: 75-100 students; ninth and tenth grade: 150 students; eleventh and twelfth grade: approximately 180 students

Career Pathways: Electrical Engineering Technology
Mechanical Engineering Technology

Academy Goals and Description: The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for businesses to remain competitive in a global economy. GAITE will direct its initial focus on the Science, Technology, Engineering, and Mathematics (STEM) career cluster with the development of career pathways in engineering technologies, particularly electrical engineering technology and mechanical engineering technology. For these two career pathways, GAITE will establish regional enrichment programs to include *Engineering Technology Exploratory Saturdays* (seventh and eighth grade) and an *Engineering Technology Summer Camp* (ninth and tenth grade). GAITE will also establish an *Academy for Engineering Technology* (eleventh and twelfth grade) within at least one high school in each of the six school divisions in the Greater Peninsula area.

Under the facilitation of NHREC, the *Academy for Engineering Technology* will implement a unique academy model that focuses on school division-based courses while utilizing regional courses at NHREC and the community colleges, as well as distance learning. GAITE's engineering technology curriculum will provide a seamless alignment from middle school to high school to college, emphasizing advanced academics (Algebra I in 8th grade, Algebra II by 11th grade, and four years of science) and college-level technical training. The instructional pedagogy will implement project-based, experiential and cooperative learning. GAITE implementation will be supported by regional and school team-based professional development.

Upon successful implementation of this initial effort, GAITE will be expanded to develop enrichment programs and academy designs for other career clusters and pathways such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of innovation, technology and engineering based upon the work force needs on the Greater Virginia Peninsula.

NHREC is the largest and oldest regional center in the state and will become the only one to operate both a Governor's School (The Governor's School for Science and Technology) and a Governor's Academy for Career and Technical Education (GAITE).

**Highlights
of the
Program:**

- A regional partnership facilitated by a Regional Education Center to establish regional and divisional programs focused initially on Electrical Engineering Technology and Mechanical Engineering Technology.
- The Virginia Space Grant Consortium will design and facilitate enrichment programs to include *Engineering Technology Exploratory Saturdays* and *Engineering Technology Summer Camp*.
- *The Academy for Engineering Technology* curriculum (eleventh and twelfth grades) will be aligned with Thomas Nelson Community College's and Old Dominion University's Engineering Technology degree programs.
- *The Academy for Engineering Technology* will be based in the school divisions, and courses will be offered at divisional high schools, NHREC, TNCC, and/or through distance learning.
- Students will earn college credits and industry credentialing as well as participate in a senior year internship, mentorship, or project learning experience.

**The State Council of Higher Education for
Virginia**

**Review of Governor's Career and Technical
Academy Proposal**

Name of Lead Entity on Proposal:
New Horizons Regional Education Center

Date of Review: April 15, 2008

The State Council of Higher Education for Virginia grants approval of the Governor's Academy for Innovation, Technology, and Engineering (GAITE) as a Governor's Career and Technical Academy.



Dr. Daniel LaVista
Executive Director
State Council for Higher Education

4.17.08
Date

*State Council of Higher Education for Virginia***Governor's Career and Technical Academies Postsecondary Curriculum Review Checklist**

Academy Name	Collaborating Partners	Total Funds Requested	Allocated Funds for Postsecondary Component
Governor's Academy: Innovation, Technology, and Engineering	New Horizons Regional Education Center (for a list of all partners, see Appendix D of the proposal)	\$100,000	NA

Criteria**Category 1: Postsecondary Accreditation and Approvals****YES/NO**

- YES** Postsecondary institution is appropriately accredited
- NA** Proposed postsecondary program has specialized accreditation, if applicable
- YES** Proposed postsecondary program is SCHEV and/or VCCS approved
- NO** Proposed postsecondary program will be seeking SCHEV and/or VCCS approval

Category 2: Governor's Career and Technical Academy Requirements**YES/NO**

- YES** Evidence of a partnership with a postsecondary institution, business, or industry, and demonstrated roles for each entity
- YES** Offers at least one career pathway in a field identified by a statewide authority or organization as a strategic growth area for Virginia
- YES** Offers at least one career pathway addressing regional and local work force demand in a high-wage, high-skill field identified by employers and workforce officials
- YES** At least one of the two career pathways is in a STEM-related field

Category 3: Postsecondary/Business Component Requirements**YES/NO**

- YES** Provides opportunities for students to earn industry credentials or state licensure, associate or baccalaureate degrees, and college credit for work-based experiences
- YES** Articulates with baccalaureate programs or to higher levels of training or professional credentialing
- YES** Demonstrates P-16 integration including curriculum development with high school, college, and university faculty (desired)
- YES** Includes college faculty as adjunct faculty of the academy (desired)
- YES** Provides opportunities for students to participate in work-based experiences

Category 4: Academic Quality**YES/NO**

- YES** Requires appropriate postsecondary faculty qualifications
- YES** Requires faculty to hold industry certification, where necessary
- YES** Planned professional development for faculty and administrators
- YES** Planned systematic program and learning outcomes assessment

Category 5: Administration and Funding**YES/NO**

- YES** Funding is sufficient to support effective administrative and operational needs including materials, administrative personnel, and facilities
- YES** Funding is sufficient to sustain faculty salaries, curriculum development costs, and instructional materials and delivery
- YES** Facilities possess the necessary physical attributes to deliver the instructional program (classroom space, technology, labs, equipment)

Comments

Emphasis on P-16 integration will contribute to the effectiveness of the academy. Collaboration between K-12 and college faculty in developing and delivering the curriculum will be critically important. Optimally, college or university faculty will act as adjunct faculty to the academy. It is positive that so many entities will be partnering to deliver the academy programs. It will be important for all partners to have clearly designated roles and responsibilities. Attached are responses provided by New Horizons Regional Centers to some additional questions asked by SCHEV.

Responses to SCHEV Comments on GAITE Proposal

April 14, 2008

It appears that there are 17 partners involved (appendix F). The proposal needs more specificity regarding the roles of the partners, and a description of how the services the partners will provide will be coordinated. It is stated that a full-time coordinator will be hired-a short description of the roles and responsibilities of this position would be helpful.

The six school division partners along with the GAITE Director will identify potential students eligible for the pre-GAITE programs along with the GAITE itself and then recruit/enroll them into those programs. For the pre-GAITE Saturday and summer programs, these divisions will be responsible for providing the names of students and faculty members to the Virginia Space Grant Consortium that will in turn develop and conduct these programs. For the GAITE program, the school divisions and New Horizons Career and Technical Education Center (CTEC) will provide staff development to its instructional personnel identified to teach required courses. In doing so, the curriculum will be aligned and instructional strategies will be introduced which will appropriately engage students. Postsecondary partner Thomas Nelson Community College (TNCC) will work with the school divisions to provide dual enrollment high school classes that meet appropriate institutional requirements. All three postsecondary partners (TNCC, Northrop Grumman Apprentice School, and ODU) will offer opportunities for GAITE students to enroll in their institutions to pursue degrees in mechanical or electrical engineering technology. Finally, business and industry partners (currently NASA, Space Grant Consortium, and Northrop Grumman) will work with GAITE to provide academy students with internships/mentorships/co-ops and other employment opportunities.

NHREC will provide a GAITE Director who will also serve as the Director for the Governor's School for Science and Technology. This position will report to the GAITE Advisory Council and will be supervised by the NHREC Executive Director. The GAITE Director will serve as a facilitator and/or coordinator with the divisional Career and Technical Education Coordinators, other GAITE Partners and DOE in the design, implementation, coordination, evaluation and reporting of GAITE initiatives. Responsibilities of the GAITE Director will include, but are not limited to the following: facilitation of the GAITE Planning Committee/Advisory Council regarding the design and implementation process; serve as primary contact to VDOE; development of GAITE marketing material, Web site and forms; scheduling and coordination of enrichment events with sponsoring partners; coordinate application and selection process for GAITE initiatives; serve as liaison with community college in the development and oversight of dual enrollment courses; coordinate with divisional representatives regarding the implementation of GAITE in each division; facilitate business and organizational participation and support of GAITE; prepare and monitor budget; submit state reports; manage program data and demographics as related to defined GAITE outcomes in coordination with other partners; and coordinate GAITE professional development initiatives across divisions.

SCHEV Category 3 requirements:

Demonstrated P-16 integration is not clear, particularly in regard to program, curriculum, and staff development with P-12, college, and university faculty. We realize that these are "desired" requirements, but would like some information regarding how these entities will work together on program and curriculum development.

GAITE teachers from the P-12, college, and university faculty will be brought together during summer months (commencing in 2009) to develop curriculum for required academy classes and to ensure that the secondary curriculum is aligned along post-secondary requirements. This will be accomplished through the coordination/direction of the GAITE Director and will likely entail assigning teachers to subject area teams. However, the summers are not the only times that the faculties will be able to convene together. The Greater Virginia Peninsula school divisions have worked together to develop a regional calendar. This has resulted in common professional development days among all of the P-12 partners. This provides a unique opportunity for these partners to meet together throughout the school year to further develop/align curriculum. In fact, opportunities can be provided for the P-12 instructors to travel to college/university campus to observe/meet with their post-secondary counterparts.

Does the proposal include college faculty as adjunct faculty of the academy, or will the role of college faculty be confined to the teaching of required courses at TNCC or ODU?

Both methods will be used. Some of the required courses will be offered on the TNCC campus. In addition, New Horizons through the GAITE Director will work towards offering additional classes, with college faculty instructors, either at New Horizons itself or through distance learning. In fact, New Horizons is currently preparing a grant proposal to procure the necessary video conferencing and video streaming equipment to facilitate such course offerings.

The proposal should include more specific information concerning where students will be able to participate in work-based experiences, and the type of work.

Currently, we have three local businesses that have expressed marked interest in providing work-based experiences for GAITE students: NASA-Langley, Canon of Virginia and Northrop Grumman Shipbuilding. Potential work experiences with these companies include drafting and design, research, flight operations and simulation, fabrication technology and manufacturing operations. In fact, all three currently offer co-op opportunities for which GAITE students would be eligible to apply following graduation. The Virginia Space Grant Consortium will work with the GAITE Director to pursue other work-based experiences in the local area with business and industry such as Liebherr Mining Co., Alcoa Howmet, and Thomas Jefferson Labs. In addition, New Horizons already has a mentorship program through the Governor's School for Science and Technology. As the GAITE Director also serves as the Governor's School Director, we will be able to draw upon those previously identified worked-based opportunities. In all cases, the GAITE Director will be able to use information at <http://www.doe.virginia.gov/VDOE/Instruction/CTE/co-op/> to "model" the internships and other experiences.

**Virginia Department of Education
Governor's Career and Technical Academy
Proposal Review Checklist**

Final Review

Title of Proposal: Governor's Academy for Innovation, Technology and Engineering

Lead Entity for Proposal: New Horizons Regional Education Centers

Date of Review: April 9, 2008

**Virginia Department of Education
Governor's Career and Technical Academy
Proposal Review Checklist**

I. Partnership Capacity

Partnerships desiring to implement a Governor's Career and Technical Academy shall provide the Department of Education with evidence of the following:

Criteria	Documentation			Comments
	Full	Partial	None	
A. An active, ongoing planning committee, including a list of members and signed certifications from each that they are willing and able to serve in that capacity. At a minimum, members must represent K-12 education (superintendent or designee), higher education, and business and industry. All partners must be represented on the committee.	X	X		4/9/08 At the time of this review there are two planning committee forms missing. 4/15/08 This omission has been corrected.
B. An advisory committee, including a list of members and signed certifications from each that they are willing and able to serve in that capacity.	X			
C. A written memorandum of agreement among school divisions, local businesses, postsecondary institutions, and any other partners that outlines ways in which community resources will contribute to the Governor's Career and Technical Academy to broaden the scope of students' educational experiences.	X			

Criteria	Documentation			Comments
	Full	Partial	None	
D. A statement of assurances that the Governor's Career and Technical Academy Planning Committee has reviewed provisions of <i>Administrative Procedures Guide for the Establishment of Governor's Career and Technical Academies</i> and agrees to follow the guidelines set forth in the document (see appendix).	X			
E. A statement of assurances that, if applicable, an ongoing Governing Board will be established to reflect current Board of Education regulations relative to jointly operated schools and programs (see appendix).	X			
Comments:				

II. Need/Rationale for the Academy

Partnerships desiring to implement a Governor's Career and Technical Academy shall provide the Department of Education with evidence of the following:

Criteria	Documentation			Comments
	Full	Partial	None	
A. Demonstration of the need/rationale for the Academy. This statement should be concise and state the major reasons to have a Governor's Career and Technical Academy, including need at the state, local and/or regional levels.	X			
B. A description of the enhanced or additional offerings in science, technology, engineering, and/or mathematics (STEM) that will meet the need described above.	X			

Criteria	Documentation			Comments
	Full	Partial	None	
C. A fiscal agent that is a public entity, including a certification that the entity is willing and able to serve in that capacity.	X			
Comments:				

III. Program Description

Each Governor’s Career and Technical Academy planning committee shall develop cooperatively with local school divisions, business, community, and higher education partners and have available for review and dissemination, a program description that includes:

A. A statement of program goals addressing the following criteria:

Criteria	Documentation			Comments
	Full	Partial	None	
1. Rigorous academic content in career and technical instruction;	X			
2. An emphasis on STEM career pathways;	X			
3. Individualized high school plans to ensure course selections that are aligned with students’ transition and career goals after high school;	X			The middle school through tenth grade enrichment programs for career exploration/recruitment are commendable.
4. Evidence that graduates will complete a college and work readiness curriculum, minimally at the level specified for Commonwealth Scholars Course of Study (State Scholars Core) with the possibility of pre-approved substitution of equivalent courses where there may be more relevant course selections for a particular career pathway;	X	X		4/9/08 The career assessment portion of the plan of studies template is missing. 4/15/08 This omission has been corrected.

Criteria	Documentation			Comments
	Full	Partial	None	
5. Evidence that graduates will qualify for the Technical and/or the Advanced Technical Diplomas; and	X			
6. Incorporation of Virginia's Workplace Readiness Skills.	X			
Comments:				

B. A statement of program objectives and performance measures to:

Criteria	Documentation			Comments
	Full	Partial	None	
1. Improve academic achievement of Academy students;	X			
2. Increase completion of dual enrollment courses;	X			
3. Provide workplace readiness experiences for students through strong partnerships with businesses;	X			
4. Increase high school graduation rates;	X			
5. Reduce dropout rates;	X			
6. Increase enrollment and retention in postsecondary education;	X			
7. Increase the proportion of students completing a college and workplace ready curriculum in high school;	X			
8. Reduce the proportion of students requiring remediation in college;	X			
9. Increase the number of industry certifications awarded to high school students; and	X			

Criteria	Documentation			Comments
	Full	Partial	None	
10. Increase the number of graduates employed in high-wage, high-demand and high-skill careers.	X			
Comments: With GAITE serving six school divisions, these goals are commendable.				

C. A brief description of the proposed program, including:

Criteria	Documentation			Comments
	Full	Partial	None	
1. Site location;	X			
2. Number of students to be served;	X			
3. Grade levels;	X			
4. General curriculum design;	X			
5. List of courses to be delivered;	X			
6. Description of how/where the courses will be delivered. Courses may be delivered on a high school, technical center or community college campus, online, or in other innovative ways; and	X			
7. Designation of full-day or part-day, academic-year program.	X			
Comments:				

D. Evidence of participation in the Governor’s Exemplary Standards Award Program for Career and Technical Education.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

E. Program and course descriptions

E.1. At least two well-articulated career pathways must be included that meet the following criteria:

Criteria	Documentation			Comments
	Full	Partial	None	
Pathway #1: Electrical Engineering Technology				
a. Must include opportunities to earn industry credentials, postsecondary certificates, diplomas or associate degrees while in high school and pursue additional industry credentials and academic degrees at the associate, bachelor’s and graduate levels. These pathways may be in the same or different career clusters.	X			

Criteria	Documentation			Comments
	Full	Partial	None	
b. Must be in a field identified by a statewide authority or organization, such as the Virginia Economic Development Partnership or the Virginia Research and Technology Advisory Commission, as a strategic growth area for Virginia. Examples include biosciences, information technology, automotive technology and motor sports, as well as modeling and simulation and nanotechnology or	X			
c. Must address regional and local work force demand in a high-wage, high-skill field as identified by employers and work force officials.	X			
d. At least one pathway must be in a STEM-related field. This career pathway should drive the innovative capacity of the region and/or state.	X			
Comments:				

Criteria	Documentation			Comments
	Full	Partial	None	
Pathway #2: Mechanical Engineering Technology				
a. Each career pathway must include opportunities to earn industry credentials, postsecondary certificates, diplomas or associate degrees while in high school and pursue additional industry credentials and academic degrees at the associate, bachelor's and	X			

Criteria	Documentation			Comments
	Full	Partial	None	
graduate levels. These pathways may be in the same or different career clusters.				
b. Must be in a field identified by a statewide authority or organization, such as the Virginia Economic Development Partnership or the Virginia Research and Technology Advisory Commission, as a strategic growth area for Virginia. Examples include biosciences, information technology, automotive technology and motor sports, as well as modeling and simulation and nanotechnology, <u>or</u>	X			
c. Must address regional and local work force demand in a high-wage, high-skill field as identified by employers and work force officials.	X			
d. Of the two pathways described, at least one must be in a STEM-related field. This career pathway should drive the innovative capacity of the region and/or the state.	X			
e. Additional career pathways may address one of the areas described above, or an area identified by the partnership as an area of interest, growth, or expansion for students in the service area of the Academy.	X			
Comments:				

E.2 List of all requirements for successful program completion.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

E.3 Academy graduates must achieve one or more of the following benchmarks:

Criteria	Documentation			Comments
	Full	Partial	None	
a. Earn one or more industry certifications or state occupational licenses, and/or demonstrate competencies on an assessment instrument recognized by postsecondary institutions such as College Level Examination Program examinations, collaboratively designed or mutually approved end-of-course tests, college placement tests, or student portfolios reviewed by a team of college and high school faculty; <u>or</u>	X			
b. Earn at least 9 transferable college credits as defined in the Early College Scholars program (includes dual enrollment, AP and other options); <u>or</u>	X			
c. Earn an Associate Degree.			X	All three are not required.
Comments:				

E.4 Significant work-based experience must be included representing additional instruction or training beyond the classroom such as:

Criteria	Documentation			Comments
	Full	Partial	None	
a. Cooperative Education; or				
b. Internships; or				
c. Job Shadowing; or				
d. Mentorships; or				
e. Project-based learning; or				
f. Service learning; or				
g. A combination of the above.	X			
Comments:				

F. Length of program and daily schedule: Governor’s Career and Technical Academies are defined by program content, not by the location or delivery system of courses. Evidence of the following must be submitted:

Criteria	Documentation			Comments
	Full	Partial	None	
Designation of full-day or part-day, academic-year program.	X			
Comments:				

G. Assurance from the fiscal agent that operating funds and facilities are available to support the Governor’s Career and Technical Academy and are adequate to meet the needs of the program.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

H. Materials and equipment to be provided to accomplish program goals and objectives.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

I. Evidence of an internal evaluation process to effect program improvement, including:

Criteria	Documentation			Comments
	Full	Partial	None	
1. A review of the Academy’s policies, procedures, and outcomes;	X			
2. A review of the program design and instructional delivery;	X			
3. Consideration of feedback from students, staff, parents, the community, and partnership members; and	X			
4. Annual collection and reporting of data to the Department of Education related to student achievement, goal achievement, and other indicators.	X			
Comments:				

IV. Administrative Procedures

Each Governor’s Career and Technical Academy must develop and maintain procedures developed cooperatively with participating partners. There should be evidence of procedures in the four areas that follow.

A. Partnerships - The role of business and industry, public school divisions, and postsecondary institutions in the partnership. The role of work force and economic development entities should also be included if they are among the partners.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

B. Student recruitment, selection criteria, and admissions.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

C. Code of student conduct and attendance.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

D. Transportation provided by the school division or consortium that is in compliance with all applicable federal and state regulations.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

E. Staff recruitment, selection, and assignment - The Governor’s Career and Technical Academy shall hire staff members who meet the Virginia teacher licensure requirements and/or postsecondary faculty qualifications. Where applicable, they must have industry-specific education with training and experience, including industry certification.

	Documentation			Comments
	Full	Partial	None	
	4/28/08	4/9/08		
Comments: 4/9/08 Dual enrollment teacher qualifications are noted but other faculty requirements are not stated. 4/15/08 Licensure requirements for all faculty and teachers of industry certification classes are specified.				

F. Staff development - The program will provide appropriate staff training in addition to staff planning time.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

G. Staff evaluation – Staff will be evaluated according to the human resources policies of the agency or institution employing Academy personnel.

	Documentation			Comments
	Full	Partial	None	
	X			
Comments:				

H. Parent, student and community involvement.

Criteria	Documentation			Comments
	Full	Partial	None	
1. Preparation for entering the Academies should begin by eighth grade.	X			
2. Students, parents, teachers, and counselors should work collaboratively to:	X			
a. Complete career interest inventories;				
b. Prepare academic and career plans outlining an intended course of study in high school;	X			
c. Review multiple postsecondary pathways and the steps required to pursue them;	X			
d. Participate in career assessments to identify areas students should strengthen to qualify for their selected pathways; and	X			
e. Discuss available diplomas, seals, and other recognitions including admission to specialized programs such as Governor's Academies.	X			

I. Documentation of insurance, budget, and other fiscal information.

	Documentation			Comments
	Full	Partial	None	
Insurance	X			
Budget (from appendix)	X			
Budget Narrative	X			
Other				
Comments:				



GOVERNOR'S ACADEMY
Innovation, Technology and Engineering

Gloucester County Public Schools
Hampton City Public Schools
Newport News City Public Schools
Poquoson City Public Schools
York County Public Schools
Williamsburg-James City County
Public Schools



Governor’s Academy for Innovation, Technology and Engineering (GAITE)

Table of Contents

Overview.....	3
Rationale.....	4
Program Description.....	6
Introduction.....	6
Goals and Performance Measures.....	7
Enrichment Program.....	9
Overview.....	9
Goals and Outcomes.....	10
Engineering Technology Exploratory Saturdays.....	11
Engineering Technology Summer Camp.....	12
Outreach to Schools.....	13
Academic and Career Plans.....	14
Academy for Engineering Technology.....	15
Course Sequences.....	15
Dual Enrollment.....	21
Distance Learning.....	22
Industry Credentialing.....	22
Expanded Academy Learning Opportunities.....	23
Application Process.....	23
Implementation Timeline.....	24
Professional Development.....	25
Internal Evaluation Process.....	27
Operational Structure.....	27
Budget Narrative.....	31
Appendices	33
A. Career Pathways.....	34
B. Flow Chart.....	47
C. Advisory Council Forms.....	49
D. Memorandum of Agreement (MOA).....	68
E. Statement of Assurances.....	150
F. Budget Form.....	152

Virginia Department of Education
Governor's Career and Technical Academy
Governor's Academy for Innovation, Technology and Engineering
(GAITE)

Overview

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists needed for businesses to remain competitive in a global economy. GAITE will direct its initial focus on the Science, Technology, Engineering, and Mathematics (STEM) career cluster with the development of career pathways in engineering technologies, particularly electrical engineering technology and mechanical engineering technology. For these two career pathways, GAITE will establish *Engineering Technology Exploratory Saturdays* (seventh and eighth grades), *Engineering Technology Summer Camp* (ninth and tenth grades), and an *Academy for Engineering Technology* (eleventh and twelfth grades). Through these programs, an additional focus will be to increase parent and student awareness, communication, recruitment, and training from grades seven to sixteen.

Upon successful implementation of this initial effort, GAITE will expand to develop enrichment programs and academy designs for other career clusters and pathways including geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of innovation, technology and engineering based upon the work force needs on the Greater Virginia Peninsula.

GAITE will be operated by New Horizons Regional Education Centers (NHREC), the largest and oldest regional center in the state and the only one operating an existing Governor's School (The Governor's School for Science and Technology). NHREC represents the six Greater Virginia Peninsula public school divisions: Gloucester County, Hampton City, Newport News City, Poquoson City, Williamsburg-James City County, and York County. GAITE partners currently include: Virginia Space Grant Consortium; Thomas Nelson Community College (TNCC); Old Dominion University (ODU); Northrop Grumman; Cooperating Hampton Roads Organization for Minorities in Engineering (CHROME); Peninsula Council for Workforce Development; and Peninsula Technical Preparation Consortium. In addition, NASA Langley has committed its support to GAITE.

Under the operation of NHREC, the Academy will implement a unique academy model that is regional and site-based within local high schools. GAITE's engineering technology curriculum will provide a seamless alignment from middle school to high school to college, emphasizing advanced academics (Algebra I in eighth grade, Algebra II by eleventh grade, and four years of science) and college-level technical training. The instructional pedagogy will implement project-based, experiential and cooperative learning through site-based courses, collaborative distance learning, as well as regional enrichment activities. GAITE implementation will be supported by regional and school-based professional development.

Rationale

The GAITE planning committee has identified the STEM career cluster as the initial focus. Electrical Engineering Technology and Mechanical Engineering Technology have been identified as the two career pathways. According to the Virginia Electronic Labor Market Analysis

(VELMA), the growth of employment in these sectors is at, or higher than, the average for all occupations in Virginia. The Virginia Workforce Council specifically identified engineering as one of 30 fields in which the supply of graduates from specific education and training programs indicates a potential annual shortage of 200 or more.¹ Regional economic efforts such as SpaceTEC (programs that prepare aerospace technicians to become Certified Aerospace Technicians) and shipbuilding require knowledge in these engineering fields as adjunct to a variety of occupations that are growing faster than the state average. The table below presents information on the major industries on the Greater Virginia Peninsula.

Industry Distribution for Greater Peninsula (LWIA XIV): This table presents a list of major industries; industry figures are for the 4th Quarter 2006.

Table 1

Industry Group	Establishments	Employees
Manufacturing (31-33)	302	29,831
Professional, Scientific & Technical Svc	1,244	14,080
Admin., Support, Waste Mgmt, Remediation	729	13,948
Construction	1,573	12,922
Other Services (except Public Admin.)	994	6,086
Transportation and Warehousing (48 & 49)	244	5,742
Wholesale Trade	393	4,346
Utilities	17	1,007
SUBTOTAL OF INDUSTRIES AFFECTED BY THIS MODEL	5,496	87,962

Source: Labor Market Statistics, Covered Employment and Wages Program

Employment data for the Greater Virginia Peninsula specific to the career pathways proposed for GAITE are included in the following table. A variety of government and military contractors, manufacturers, aerospace industries, and research firms in the area employ engineers. The Peninsula Council for Workforce Development reports that efforts such as NASA

¹ Virginia Workforce Council. (2006). *Workforce Development Blueprint: Defining Virginia Workforce Needs, 2012*. Richmond, VA: author.

space missions, national defense, and air, sea, and ground transportation systems are directly in need of STEM entrants, fueling the projected demand for engineers.

In general, the career pathways will allow several exit points for engineers, engineering technologists, and technicians to address the regional and Virginia work force.

Sample Occupational Employment Projections in Greater Peninsula (LWIA XIV)

for a base year of 2004 and a projected year of 2014

Table 2

Occupational Title	2004 Estimated Employment	2014 Projected Employment	Total 2004- 2014 Employment Change	Annual Avg. Percent Change	Total Percent Change
Engineering Technicians, Except Drafters, All Other	518	575	57	1.0	11.0
Electrical and Electronic Engineering Technicians	485	588	103	1.9	21.2
Aerospace Engineers	801	974	173	2.0	21.6

Source: Projections Team / Micro Matrix System

Program Description

Introduction

The Governor's Academy for Innovation, Technology and Engineering's (GAITE) initial focus is on electrical and mechanical engineering technologies. GAITE uses a distributed program model with the majority of enrichment programs provided on a regional basis while the majority of the Academy coursework takes place in the local high schools.

The GAITE enrichment program will provide activities, rigorous coursework, and career planning for students in the seventh through tenth grades. GAITE will implement *Engineering Technology Exploratory Saturdays* (seventh and eighth grades), and *Engineering Technology Summer Camp* (ninth and tenth grades). An additional focus will be to increase parent and

student awareness through communication, recruitment, and development of Academic and Career Plans (ACP).

NHREC will coordinate the development of the GAITE *Academy for Engineering Technology* in at least one high school within each of the six Greater Peninsula school divisions. Courses will be offered at the local high schools, NHREC, Thomas Nelson Community College (TNCC), or any other approved site. Each academy will provide a career pathway for students to transfer into TNCC, Old Dominion University (ODU) programs, and/or other colleges and universities in engineering technology or a related field.

Enrollment for the GAITE *Academy for Engineering Technology* will be through an application process open to juniors and seniors. The Academy courses will be offered using three different instructional delivery models: courses at local high schools, distance learning, and regional courses offered on-site at TNCC or NHREC.

GAITE will participate in the Governor's Career and Technical Exemplary Standards Awards Program and integrate Virginia's Work Readiness Skills. GAITE will also emphasize professional development through a summer teacher institute and additional regional training opportunities related to STEM instructional strategies during the school year for teachers.

Goals and Performance Measures

During the 2008-2009 school year, each school division will collect and report baseline data relative to the GAITE goals, to include high school graduation and dropout rate of career and technical education completers. These data will be collected on students enrolled in existing technical courses that are being incorporated into each division's *Academy for Engineering*

Technology. Upon collection and analysis of this baseline data, the GAITE Advisory Council will revise, as needed, the following goals and performance measures:

1. Maximize opportunities to prepare Peninsula students for targeted careers in technology by increasing academic rigor and relevance.
 - a) 85 percent of GAITE students will be enrolled in advanced mathematics beyond Algebra II by senior year; and
 - b) 85 percent of GAITE students will complete four years of science.
2. Raise student aspirations and attract more students to postsecondary education in preparation for careers in engineering technology.
 - a) 85 percent of students attending the *Engineering Technology Exploratory Saturdays* and *Summer Camp* will report that the events assisted in raising their awareness of the nature and value of engineering technology careers and workplace rewards;
 - b) 70 percent of GAITE graduates will earn an average of nine transfer credits through dual enrollment and AP courses;
 - c) 60 percent of those completing the *GAITE Academy for Engineering Technology* will enroll in engineering technology postsecondary programs or related fields; and
 - d) 33 percent of GAITE enrollment will represent a nontraditional population.
3. Provide well-trained workers to support the recruitment of new businesses and industries to the Greater Virginia Peninsula and the Commonwealth and to meet the work force needs of existing business, industry, government, and the military.
 - a) 80 percent of those completing the *GAITE Academy for Engineering Technology* will possess Virginia Board of Education approved credentialing; and

- b) 60 percent of GAITE graduates will obtain employment in engineering technology or related occupations following postsecondary education.

Enrichment Program

Overview

Under the leadership of the Virginia Space Grant Consortium (VSGC), GAITE partners will provide pipeline enrichment activities to recruit, inspire, and engage seventh- through tenth-grade students in the STEM career cluster. Each enrichment program will include a career awareness component to assist both parents and students in understanding engineering technology careers and the career pathways that lead to those fields of work.

All programs will include experiential and problem-based learning activities, and will be developed in partnership with business and higher education. The opportunity for students and parents to interact with STEM role models and other mentors, including current VSGC scholars and fellows will be included where applicable.

The VSGC will draw on its extensive member and partner network, particularly NASA Langley Research Center, to assist with program development. Consortium members include Old Dominion University, which serves as VSGC's host institution; the College of William and Mary; Hampton University; Virginia Polytechnic and State University; the University of Virginia; NASA Centers (NASA Langley Research Center and Goddard Space Flight Center's Wallops Flight Facility); Virginia Department of Education; State Council for Higher Education in Virginia (SCHEV); Virginia's Center for Innovative Technology; and other institutions representing diverse aerospace education and research interests. NASA Langley has committed its assistance with content development, technicians and engineering mentors and presenters, and

other resources. VSGC will also utilize the assistance of Northrop Grumman and other employers of engineering technologists.

Goals and Outcomes

In addition to performance measures, GAITE has the following goals:

- Assist students in grades seven through ten and their parents in identifying and understanding career options in engineering technology and understanding the academic preparation needed to pursue these careers.
- Create student awareness of GAITE programs and activities and prepare students for successful application to GAITE.
- Raise student and parent awareness of the nature, value, and rewards of careers in engineering technology.
- Provide students with hands-on experiences, presentations, role models, and exposure to engineering technology-related programs and activities.
- Increase student and parent awareness of the difference between engineering and engineering technology, and the skills required by each field.
- Encourage females and students from underrepresented minorities to enroll in engineering technology courses and apply to GAITE.
- Connect participants with the Career Café hosted by the Peninsula Council for Workforce Development for career exploration and enrichment activities.
- Improve student and parent awareness of CHROME, Technology Student Organizations, Project Lead The Way and other student support organizations related to engineering technology.

- Assist students in identifying and connecting with academic mentors in their schools who can support their application to and participation in GAITE.
- Increase students' effective use of career inventories and assessments ensuring proper preparation for engineering technology careers as measured by the Academic and Career Plan (ACP) created at the end of the eighth-grade year.
- Improve students' ability to develop a technological portfolio in preparation for applying to GAITE.

Engineering Technology Exploratory Saturdays

The purpose of the Engineering Technology Exploratory Saturdays is to provide a series of career enrichment events. These events will engage and inspire selected seventh- and eighth-grade students throughout the region to pursue STEM careers and enrollment in GAITE.

Beginning in the fall of 2008, the program will consist of a series of three Saturday events, approximately 4-6 hours in length with each program offered twice for a total of six events. Exploratory Saturdays will be held at regional colleges and STEM employer facilities. Each Saturday event will feature a STEM career cluster. Activities designed specifically for parents will be provided. Each event will provide guest speakers, career exploration, and interactive activities for the students. The focus and content of each Saturday will be designed by the Virginia Space Grant Consortium with input from the GAITE Advisory Committee and student organization focus groups.

Between 75 and 100 students representing all of the Virginia Peninsula school divisions will be selected to attend the events. Representation will be proportional based on seventh- and

eighth-grade enrollment in each division. Demographics such as gender and ethnicity will be considered during the selection process to create a diverse student population.

To be selected, students submit an application including: 1) a written paragraph regarding why they are interested in STEM and GAITE engineering technology pathways; and 2) references from their mathematics and science teachers. Applications will be reviewed and selections made by a GAITE advisory subcommittee.

Engineering Technology Summer Camp

The purpose of the Engineering Technology Summer Camp is to provide an event that assists both parents and students in understanding careers in electrical and mechanical engineering technology, and the courses required to pursue these careers. This event will immerse students in hands-on and interactive activities directly related to both engineering technology pathways, and to introduce them to professionals and role models in these fields. In addition, this event will connect participants with the Career Café, a Café hosted by the Peninsula Council for Workforce Development that promotes career exploration and work-based learning.

Beginning in the summer of 2009, a two- to three-day camp will be held during the summer of a student's ninth- or tenth-grade year. The event will be hosted by NASA Langley, a local college or regional STEM employers. The summer camp will allow the students to focus specifically on developing the knowledge and skills needed to be successful in mechanical and electrical engineering technology careers. The students will be required to complete and present a project at the end of the event. The project will be centered on a theme or topic critical to engineering technology careers. The event will feature keynote speakers, hands-on discovery

sessions for students, relevant materials, media presentations, and activities for parents. Camp leaders will present engineering technology concepts during a series of concurrently scheduled "exploratory" sessions. During these sessions students will explore particular career clusters or pathways on themes such as rockets, space flight, or small satellites. The event will also include career enrichment presentations and content provided by the Career Café. The focus and content of the event will be designed by the Virginia Space Grant Consortium with input from the GAITE Advisory Committee and student organization focus groups.

Between 75 and 100 students representing all of the Virginia Peninsula school divisions will be selected to attend the events. Representation will be proportional based on ninth- and tenth-grade enrollment in each division. Demographics such as gender and ethnicity will be considered during the selection process to create a diverse student population.

To apply for the camp, a student must submit an application which includes: 1) a paragraph explaining interest in STEM and the GAITE engineering technology pathways; and 2) references from mathematics and science teachers. Applications will be reviewed and selections made by a GAITE advisory subcommittee.

Outreach to Schools

GAITE outreach will incorporate existing NHREC outreach initiatives. NHREC staff annually visit all tenth-grade classrooms in every local high school between November and February. This will continue in the fall of 2008. NHREC also hosts a breakfast event for all counselors and administrators in the region and provides updates through an e-mail distribution list. These outreach activities will now promote GAITE, in addition to the NHREC Career and Technical Education Center, and the Governor's School For Science and Technology.

Academic and Career Plans

Career interest inventories, career assessments, and Academic and Career Plans (ACP) are vital tools to assist students in their selections of appropriate career pathways. A completed ACP will be a GAITE application requirement for the *Academy for Engineering Technology*.

Through the use of these strategies, students interested in STEM fields will be guided to enroll in courses associated with a pre-engineering pathway. These courses will enable students to develop research skills, apply science and mathematics, design, innovate, and use technology to solve problems, and work as a team. As a result, classes in ninth- through twelfth-grades will be increasingly rigorous with the expectation that students will take advanced academic and technical courses.

In middle school, counselors will work with eighth graders and their parents in identifying interest in the GAITE *Academy for Engineering Technology*. For interested students, counselors will design ACP's outlining high school programs of study that focus on engineering and/or engineering technology.

Upon entering ninth grade, the student will be identified for GAITE's *Academy for Engineering Technology* in the local student information system. These students will receive regular communication regarding organizations, courses, and events in which they can participate.

In the tenth grade, students with the prerequisites will be encouraged to apply to their local *Academy for Engineering Technology*. Upon acceptance to the *Academy of Engineering Technology*, each student's eleventh- and twelfth-grade plan will reflect the courses necessary to complete the academy requirements.

Academy for Engineering Technology

Course Sequences

Each school division will design a GAITE *Academy for Engineering Technology* career pathway model for targeted eleventh and twelfth graders. Models will be approved by the GAITE Planning Committee/Advisory Council by November 2009 for implementation in the 2009-2010 school year. The *Academy for Engineering Technology* in each school will target 30 students (15 in eleventh grade and 15 in twelfth grade) totaling 180 students for the region. The local high schools being targeted to implement an *Academy for Engineering Technology* are as follows:

Table 3

Public School Division	High School
Gloucester County	Gloucester
Hampton City	Phoebus
Newport News City	Heritage
Poquoson City	Poquoson
Williamsburg-James City County	Warhill
York County	York

The initial local *Academy for Engineering Technology* model will focus on the STEM cluster with two pathways: Electrical Engineering Technology and Mechanical Engineering Technology. Each local academy will be aligned with the associate degree programs at TNCC and transferable to ODU. Each student's ACP will include a full-day course sequence offered within the division, at NHREC, at TNCC, and/or through distance learning.

All GAITE graduates will meet the following minimum course requirements:

- Algebra II or higher (recommend college pre-calculus)
- Four years of science (recommend high school physics)
- Two years of foreign language (required for Commonwealth Scholars)
- Four years of English (recommend college composition)
- CTE credits meeting or exceeding proposed Technical or Advanced Technical Diploma
- CTE courses that prepare students for the Thomas Nelson Community College's Associate degree programs in Electronics Engineering Technology and Mechanical Engineering Technology that transfer to Old Dominion University

The minimum course requirements will allow GAITE graduates to earn the following:

- Technical or Advanced Technical Diploma

And

- Earn at least nine transferable college credits (dual enrollment, AP, and other options)

Or

- Earn one or more industry certifications or state occupational licenses, and/or demonstrate competencies on an assessment instrument recognized by postsecondary institutions such as College Level Examination Program (CLEP) examinations, collaboratively designed or mutually approved end-of-course tests, college placement test, or student portfolios reviewed by a team of college and high school faculty

GAITE's ultimate goal is to provide an increased number of trained electrical engineering and mechanical engineering technologists for the regional work force. The underlying belief supporting

this goal is that students earning transferable college credits aligned with an Associate or Bachelor of Science degree in engineering technology will more than likely transition to a postsecondary training program. Therefore, local GAITE *Academy for Engineering Technology* models will emphasize the earning of transferable credits in the form of dual enrollment, AP, or other options.

Project Lead The Way (PLTW) is currently being implemented in three of the six Peninsula school divisions. PLTW offers a four-year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. The curriculum was developed at Rochester Institute of Technology (RIT) in New York State. RIT grants dual credit for certified PLTW high school courses. PLTW has a comprehensive organizational structure in place to support teachers' implementation of the program. Key elements include local, state, and national professional development, model curriculum and instructional materials, and teacher training. The curriculum provides a vehicle for students to utilize cutting edge engineering equipment and resources.

The following tables illustrate the academic and technical courses currently provided throughout the region that support the electrical engineering technology and mechanical engineering technology career pathways. Each division, selecting the courses available to them or adding additional ones, will design an *Academy for Engineering Technology* using the career pathway template (Appendix A), to include noting transferable credits and industry credentialing. As described elsewhere in this proposal, coursework will be offered using three different delivery strategies: locally based courses, distance learning courses, and/or on-site courses at TNCC, NHREC, or other approved sites. Divisions are encouraged to offer a variety of course options to students from those listed in the following tables.

ACADEMIC COURSE OPTIONS

Table 4

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or English Composition – ENG 111, 112
Mathematics	Algebra I or higher	Geometry or higher	Algebra II or higher to include Pre-calculus - MTH 163/164	Trigonometry or higher to include Pre-calculus - MTH 163/164 or Calculus I – MTH 173
Science	Earth Science or higher	Biology or higher	Chemistry or higher	High School Physics or higher to include College Physics with lab PHY 201/202 TNCC or NHREC
Foreign Language	2 years minimum unless seeking Advanced Studies Diploma where 3 years are required			

Eng. 111/112, MTH 163/164, and MTH 173 may be offered on-site or distance learning through

TNCC

Mechanical Engineering Technology Technical Courses

Table 5

High School Courses	VDOE Course #	Industry Certification	TNCC Dual Enrolled Course	TNCC Distance Learning (DL) or On-Site (OS)
Basic Technical Drawing	8434/8435		None	
Engineering Drawing/ Computer Drawing and Design	8436/8493	AutoCad Cert. NOCTI CAD	DRF 151(3 credits)	OS/DL
Intro Engineering	8490	NOCTI Pre-Engineering	MEC 100 (2credits)	Intro. To Eng. Tech. – OS/DL
Advanced Engineering	8438			
Manufacturing Systems	8425			
Machine Technology I (NH)	8539		MAC 161(3credits)	
Introduction to Engineering Design (PLTW)	8436	NOCTI Pre-Engineering	DRF 151 (3 credits) MEC 100 (2 credits WJCC)	
Principles of Engineering (PLTW)	8490	NOCTI Pre-Engineering	MEC 100 (2credits)	Intro. To Eng. Tech. - OS/DL
Computer Integrated Manufacturing (PLTW)	8425			Technical Elective – ODU
Advanced Engineering (PLTW)	8438	NOCTI Pre-Engineering		
Engineering Design and Development (PLTW)	8491			
				Electronic Circuits and Instrumentation MEC 103 OS
				Materials and Processes - MEC 113 OS DL – future development
				CATIA - DRF 241 OS/DL 4 credits
				Statics for Engineering Technology - MEC 131 OS
				Strength of Materials MEC 132 OS
ODU awards 4 college credits to completers of PLTW; TNCC offers 2 credits for MEC 100				

Electrical Engineering Technology Technical Courses

Table 6

High School Courses	VDOE Course #	Industry Certification	VCCS Dual Enrolled Class	TNCC Distance Learning (DL) On-Site (OS)
Electronics I	8536		ETR 115 (3 credits)	OS
Electronics II	8537	NOCTI Electronics Data Cabling Installer Certif. Elect. Tech. Assoc. (CET)	ETR 126 (3 credits)	OS
Electronics I (NHREC)	8536		ETR 115 (3 credits) ETR 121 (3 credits)	
Electronics II (NHREC)	8537		ETR 126 (3 credits) ETR 179 (3 credits)	
Introduction to Engineering Design	8490	NOCTI Pre-Engineering	MEC 100 (2credits)	OS/DL – future development
Advance Engineering Design	8491			
Manufacturing Systems	8425			
Introduction to Engineering Design (PLTW)	8436	NOCTI Pre-Engineering	MEC 100 (2 credits WJCC)	
Digital Electronics (PLTW)	8440			
Principles of Engineering (PLTW)	8490	NOCTI Pre-Engineering	MEC 100 (2 credits)	OS/DL (Intro. To Eng. Tech.)
Computer Integrated Manufacturing (PLTW)	8425			
Advanced Engineering (PLTW)	8438	NOCTI Pre-Engineering		
Engineering Design and Development (PLTW)	8491			
Telecommunications I/II (NHREC 09)	8650/8651	Fiber Optic Installer Cert. Fiber Optic Net. Cabling Cert.	(potential ETR 231)	Laser and Fiber Optics I - ETR 231 (DL)
Computer Control and Automation 8420/842II (NHREC 09)	8651		(potential Programmable Controllers) 239	(potential Robotics) 286 OS
				Industrial Electricity Applications ETR 145 OS
				Network Analysis ETR 215 OS/DL
				Network Analysis ETR 217 OS/DL
ODU awards 4 college credits to completers of PLTW; TNCC offers 2 credits for MEC 100				

Dual Enrollment

The *GAITE Academy for Engineering Technology* will focus on students earning transferable college credits in a STEM pathway to include both academic and technical courses. Dual enrollment courses will be delivered in one of three ways: 1) at local high schools; 2) through distance learning; and 3) on campus at NHREC, or TNCC, or another approved site. In addition to all GAITE teachers possessing a Virginia teaching license and industry credentialing related to the curricula being taught, all dual enrollment courses will be taught by instructors meeting the academic qualifications of the Virginia Community College System. Eligibility for dual enrollment will be determined using current college practice for all students, including appropriate placement testing and prerequisites.

In Appendix A, the career pathway templates and TNCC program guides illustrate the TNCC curricula for Electrical Engineering Technology (EET) and Mechanical Engineering Technology (MET). Divisions may align courses for dual enrollment credits with these programs. EET and MET are designed to transfer to Old Dominion University (ODU) and students who have earned the Associate's degree may enter ODU with junior status. A list of approved electives that meet the general education requirements at both TNCC and ODU are available so that courses are appropriately selected. Technical courses may transfer on a course-by-course basis, or as a block of courses to the MET or EET programs at ODU.

Courses listed can be offered as dual enrollment courses in grades eleven and twelve by the community college either at the home school, on the TNCC campus, at NHREC, or through distance learning, i.e., broadcast from the ODU Peninsula Center. The three institutions are adjacent facilities that would allow a school division to develop a half-day or full-day opportunity for students to attend a combination of courses offered at multiple locations. In

courses where labs are not easily duplicated, such as fiber optics, the lecture portion of the course could be broadcast from the ODU Peninsula Center to the home school with the students attending TNCC or NHREC once a week for the lab.

Students from all school partners unable to schedule their courses during the school day will have the option of taking the courses at TNCC in the evening or summer sessions. Those students taking advantage of this opportunity, in addition to the programs planned at the home school, may be able to obtain an Associate's degree upon high school graduation.

Distance Learning

Distance learning dual enrollment options will be explored through the use of the ODU Peninsula Center, TNCC, NHREC and Virtual Virginia. The ODU Peninsula Center offers synchronous two-way capability for instructor-student interaction to multiple sites. School divisions with course facilitators may use asynchronous online courses delivered by TNCC faculty. Live chats or online office hours will be provided. Tests developed by the instructor will be proctored at the home school by the course facilitator. Lab components of the course may be held at the home school with the course facilitator as instructional assistant. Schools that do not have equivalent labs may send their students to TNCC or NHREC for the lab components.

Industry Credentialing

Credentialing will assist students in better understanding the career pathways, the associated skill sets expected by industry, and the required coursework for each pathway. It will be a GAITE requirement for students in the *Academy for Engineering Technology* to earn at least one Virginia Board of Education approved credential if they do not have at least nine transferable college credits.

Expanded Academy Learning Opportunities

Through the *Academy for Engineering Technology*, students will benefit from guest speakers, field trips/tours, problem-based learning activities, service learning, and job shadowing experiences with local businesses through coordination with the GAITE partners. These activities will include a career awareness component to build an expanded understanding of engineering technology careers and the postsecondary academic pathways.

Each *Academy for Engineering Technology* model will provide for a senior year capstone event that will be a student internship, service project, or a project-based learning project. A sample project may be the design and building of a product with project timelines, statistical process controls, and performance improvement processes. This project would be guided by a common project design brief shared by *Academy for Engineering Technology* teachers across the region. Internship options will be considered during the students' senior year. Internship placements and other expanded learning programs will be developed through the network of GAITE partners.

Application Process

Sophomore students will be invited to submit an application for admission to the *Academy for Engineering Technology*. Students must submit the following: a completed application form, a transcript demonstrating a 2.5 GPA or better, a completed Academic Career Plan, a minimum of three letters of recommendation (at least one from a mathematics teacher and one from a guidance counselor), and a one-page essay explaining their interest in STEM. Students will be selected using a rubric based on these documents. A technological portfolio including related activities is optional. The portfolio may include digital artwork, projects and demonstrations of gaming ability, programming experience, and problem-solving.

Implementation Timeline

Engineering Technology Exploratory Saturdays (seventh and eighth grades)

1. Design regional Exploratory Saturday events (May-July 2008)
2. Recruit and select seventh- and eighth-grade students (September 2008)
3. Implement regional Exploratory Saturdays (October 2008)

Engineering Technology Summer Camp (ninth and tenth grades)

1. Design regional Summer Camp experience (Fall 2008)
2. Recruit and select ninth- and tenth-grade students (March-May 2009)
3. Implement regional *Engineering Technology Summer Camp* (June 2009)

Academy for Engineering Technology (eleventh and twelfth grades)

1. Initiate local *Academy for Engineering Technology* design process (June 2008)
2. Explore distance learning options for each division (Summer 2008)
3. Approve local *Academy for Engineering Technology* model by GAITE Advisory Council (November 2008)
4. Place local *Academy for Engineering Technology* pathway and courses into local Program of Studies and Budget (November 2008)
5. Obtain Department of Education approval for the implementation of any new CTE courses (March 2009)
6. Recruit and enroll students into each local *Academy for Engineering Technology* for 2009-2010 (Spring 2009)
7. Initiate an *Academy for Engineering Technology* model in at least one high school within each division (September 2009)

GAITE Engineering Technology Professional Development

1. Conduct middle school science, mathematics, CTE, counselor professional development (August 2008)
2. Design regional GAITE Summer Teacher Institute for *Academy for Engineering Technology* teachers (Fall 2008)
3. Implement the regional GAITE Summer Teacher Institute for *Academy for Engineering Technology* teachers (Summer 2009)

Professional Development

Engineering Technology Exploratory Saturdays – Summer Staff Orientation and Design

A team of middle school counselors, science, mathematics and career and technical education teachers from each middle school will be convened for one day for a GAITE orientation in the summer of 2008. At that time, participants will review the *Engineering Technology Exploratory Saturdays* events, career enrichment, and ACP process. Participants will engage in some of the STEM activities that will be provided to seventh- and eighth- graders during the *Engineering Technology Exploratory Saturdays* events. Input will be obtained on how to refine proposed activities, student recruitment, and engagement.

GAITE Summer Teacher Institute

Critical to the delivery of high-quality STEM instruction in preparatory and Academy coursework is the development and training of cross-disciplinary teams of local teachers from technology education, mathematics, and science. The GAITE team will develop a summer professional development institute for summer 2009 for the *Academy for Engineering*

Technology teachers to practice the engineering design process through sessions led by practicing technicians, higher education partners, and others as appropriate. A master teacher will engage teachers in hands-on sessions that expand their use of project-based and experiential learning strategies. This will encourage a team-based, cross-disciplinary approach to curriculum design, development, and instruction. Program content will include lessons in product cycles, project management, research documentation, testing, statistical analysis, design tools, prototyping, and process or product modeling.

Following the teacher institute, teacher teams will integrate the content and strategies learned in the course into new learning modules/lessons. Opportunities for learning during the school year will be provided through peer observations of classroom instruction and online collaboration with subject area peer networks. Follow-up activities and resources will be provided and communication with institute leaders, especially the master teacher, will be facilitated during the school year.

The first cohort of trainees will consist of local school teams of eleventh- and twelfth-grade teachers. All teachers of dual enrollment courses will meet the academic qualifications for credentialing in their disciplines as required by The Southern Association of Colleges and Schools (SACS) and the Virginia Community College System. Participants in the first program will be invited to participate in a train-the-trainer program for grades six through twelve. This model supports the spread of research-based instructional strategies and team-based approaches to STEM curriculum design, development, and instruction. In addition, it establishes the foundation for future vertical teaming between STEM teacher teams at the middle and high school levels. Teacher participants will earn a stipend and VSGC will assist interested teachers in obtaining graduate credit or continuing education credits through one of its member higher education institutions.

Internal Evaluation Process

The GAITE Advisory Council will annually review the engineering technology pathways designs, instructional delivery, and performance measure outcomes and make necessary revisions to policies and procedures. Input will include parent feedback from sessions at the *Engineering Technology Exploratory Saturdays*, student organization focus groups, and student participation surveys as illustrated in the design flow chart in Appendix B.

GAITE will rely on the data collection and reporting capabilities of its member school divisions to collect data on individual students related to GAITE goals, performance, and reporting requirements. NHREC will serve as the lead agency for compiling the data and presenting reports related to student achievement and attainment of performance measures. NHREC will also serve as the lead agency in compiling and submitting all Virginia Department of Education reports. NHREC has demonstrated its capacity, as coordinator of the Governor's School for Science and Technology and the Career and Technical Education Center, to work with its member school divisions to collect and report data and to submit reports that meet the Virginia Department of Education's requirements.

Operational Structure

Governing Board

The New Horizons Regional Education Centers Board of Trustees, which currently serves and meets all Board of Education and State Code regulations for a jointly operated school and programs, will serve as the Governing Board for GAITE.

Planning Committee and Advisory Council

GAITE partners will provide at least one active member to the GAITE Planning Committee/Advisory Council (Appendix C). The committee shall have oversight responsibility for the design, implementation and evaluation of all initiatives. The GAITE director will be responsible for the facilitation, coordination, and/or implementation of the Planning Committee/Advisory Council recommendations.

Coordination

NHREC will provide a GAITE director who will also serve as the Director for the Governor's School for Science and Technology. This position will report to the GAITE Advisory Council and will be supervised by the NHREC Executive Director.

Director Responsibilities

The GAITE director will serve as a facilitator and/or coordinator with the local Career and Technical Education coordinators, other GAITE partners and the Virginia Department of Education in the design, implementation, coordination, evaluation and reporting of GAITE initiatives. Responsibilities of the GAITE director will include, but are not limited to the following: 1) facilitating the GAITE Planning Committee/Advisory Council regarding the design and implementation process; 2) serving as primary contact to DOE; 3) developing GAITE marketing material, Web site and forms; 4) scheduling and coordinating enrichment events with sponsoring partners; 5) coordinating the application and selection process for GAITE initiatives; 6) serving as liaison with community colleges in the development and oversight of dual enrollment courses; 7) coordinating with local representatives regarding the implementation of

GAITE in each division; 8) facilitating business and organizational participation and support of GAITE; 9) preparing and monitoring the budget; 10) submitting state reports; 11) managing program data and demographics as related to GAITE outcomes in coordination with other partners; and 12) coordinating GAITE professional development initiatives across divisions.

Memorandum of Agreement (MOA)

A written MOA outlining ways in which community resources will contribute to *GAITE* to broaden the scope of students' educational experiences will be signed by all current and future partners. This MOA outlines responsibilities for each of the partner groups (Appendix D).

Statement of Assurances

A signed statement of assurance (Appendix E) has been signed by the Executive Director of New Horizons Regional Education Centers on behalf of GAITE stipulating that the Governor's Academy for Career and Technical Academy Planning Committee has reviewed provisions of *Administrative Procedures Guide for the Establishment of Governor's Career and Technical Academies* and agrees to follow the guidelines set forth in the document.

Teacher Supervision and Evaluation

Direct supervision and evaluation of GAITE instructional faculty will be the responsibility of the entity providing the service delivery according to its policies and procedures. All GAITE teachers will possess a valid Virginia teacher license for the subject to be taught and industry credentials related to the curriculum being taught.

Student Code of Conduct, Attendance, and Safety

GAITE student discipline, attendance and safety will be handled according to the policies and practice of each school division and/or provider of services (i.e., TNCC, NHREC, business environments, field trips, etc.).

Transportation

Students will be transported for courses offered off-site whether within the division, NHREC, or TNCC through the use of local transportation system, unless otherwise designated.

Fiscal Agent

Hampton City Public Schools will serve as the fiscal agent for GAITE.

Insurance

NHREC, lead agency, and each of the six Greater Peninsula School Divisions, as required, have active liability insurance policies that will cover GAITE activities. NHREC nor any of the Greater Peninsula School Divisions provide student health insurance policies, but each makes available supplemental policies for students to purchase.

Budget Narrative

NHREC will utilize the Governor's Academy for Career and Technical Education Implementation Grant of \$100,000, as illustrated in Appendix F, to fund the following 2008-2009 GAITE initiatives:

- *Engineering Technology Exploratory Saturdays, Engineering Technology Summer Camp, and 2009 GAITE Professional Development Summer Teacher Institute* will be designed and facilitated by Virginia Space Grant Consortium (VSGC) and hosted by other GAITE partners (Purchased services - \$44,763). The \$44,763 to VSGC provides: project design and development of event content (\$5,007), planning and facilitation of events (\$9,006), travel (\$1,500), room rental (\$500), stipends for business presenters (\$8,250 as per 22 presenters x 3 days x \$125), project materials (\$9,640), and food (\$10,860). VSGC is contributing \$20,000 in matching funds through other grant funds it receives, as well as in-kind services of hosting partners;
- The six local GAITE *Academies for Engineering Technology*, following the career pathway template, will be implemented in the fall of 2009 (contracted services - \$48,000, or \$8,000 per each of six divisions.) These funds will be available for reimbursement beginning in the summer of 2008. Allowable expenses include: teacher stipends for career pathway and curriculum development, materials and supplies to implement new programs, tuition for new dual enrollment courses, and implementation of distance learning courses. Each division will contribute in-kind administrative time and travel expenses toward this project:

- The cost of GAITE coordination and operation will be \$7,237. This includes the contract to update the Web site and print material (\$2,987), materials (\$1,500), mailing (\$2,000), and travel (\$750).

Sustainability for GAITE following the implementation phase will be through local school division funding, business contributions, and additional grant funding as obtained. Each partner has signed an MOA to assure that resources which have or will be agreed upon for the implementation of *GAITE* will in fact be provided to include, but not limited to: personnel, instructional, facility, staff, technology, equipment, and supplies.

APPENDICES

APPENDIX A

Career Pathways



Career Cluster: Science, Technology, Engineering and Mathematics



Career Pathway: Engineering and Technology

Technical Studies: Electrical Engineering Technology

Related Industry Certifications Available: NOCTI/Fiber Optics Installer (ETA)/Fiber Optic Cert.
Electronics Technician Cert. (ETA)

	Grade	English	Math	Science	S.S.	Required Courses or Recommended Electives and/or CTE Courses		
Middle School	7					Inventions and Innovations (8461)		
	8		Math 8 Or Algebra I 3130			Technological Systems (8462)		

Career Assessment: Administration of a career assessment instrument is appropriate at the middle-school level to help students and their parents plan for high school (Virginia's Career Planning System or other assessment product).

	Grade	English	Math	Science	S.S.	Required Courses or Recommended Electives and/or CTE Courses			Related Careers
SECONDARY <i>Career Coaching,</i>	9	English 9 1130	Algebra I 3130 Or Geometry 3143 Or Algebra II 3135	Earth Science 4210	World History 2340 or Geography 2210	Health & PE and For. Language (if necessary)	Basic Technical Drawing & Design (8434-8435) Or *Electronics I (8536) (ETR 115)	*Intro Engineering Design 8490 (MEC 100) or *Introduction to Eng. Design PLTW 8436 (MEC 100)	<ul style="list-style-type: none"> • Automated Manufacturing Technician • Calibration Technician • Manager, Supervisor • Quality Control Technician • Quality Engineer • Precision Inspector • Production Manager • Electrical Engineering Technician • Industrial Engineer Technician • Engineering Assistant

Grade	English	Math	Science	S.S.	Required Courses or Recommended Electives and/or CTE Courses			Related Careers
10	English 10 1140	Geometry 3143 Or Algebra II 3135 Or Alg II/Trig 31371	Biology I 4310	World History 2340 or Geography 2221	Health & PE and For. Language (if necessary)	*Electronics I (8536) (ETR 115) or *Electronics II (8537) (ETR 126)	*Intro Engineering 8490 MEC 100) or *Principles of Engineering PLTW 8490 (MEC 100)	<ul style="list-style-type: none"> • Project Manager • Drafter • Electrical Engineer • Electronics Technician
11	English 11 1150	Geometry 3143 Or Algebra II 3135 Or Trigonometry/ Discrete Math 3150/3154 Or Math analysis 3162	Chemistry 4410	US/VA History 2360	For. Lang (if necessary)	*Electronics II (8537) (ETR 126) Or *Electronics (NHREC (ETR115&121))	Manufacturing Systems 8425 or *Computer Integrated Manufacturing PLTW 8425 (Tech Elective ODU)*	
12	*English 12 1160 (Eng 111/112)	Trigonometry/ Discrete Math 3150/3154 Or Math analysis 3162 Or *Pre-Calculus (MTH 163-164) Or *Calculus 31601 (MTH 173)	Physics 45101 Or *College Physics (PHY 201-202) Or Other Science	US/VA Gov 2440		Advanced Engineering Design 8438 Or *Telecommunications I/II NHREC (8650/8651) (potential Laser/Fiber Optics ETR 231)	Advanced Eng. PLTW 8438 Engineering Design&Dev. PLTW 8491 *Laser and Fiber Optics I (ETR 231)	

Postsecondary Placement Assessments (<i>Reading, Writing, & Math</i>)									
POSTSECONDARY Community College <i>Career Placement</i>	Year 1 1st Semester	College Composition I (ENG 111) (If not taken as dual enrollment)	Pre-Calculus I (MTH 163) (If not taken as dual enrollment)	College Success Skills (SDV 100)	Electronics Troubleshooting (ETR 126) (If not taken as dual enrollment)	D.C. and A.C.Circuits (ETR 115) (If not taken as dual enrollment)	Intro to Eng. Tech (MEC 100) (If not taken as dual enrollment)		
	Year 1 2nd Semester	Social Science Elective	College Composition II (ENG 112) (If not taken as dual enrollment)	Health or PE Elective (HLT/PED)	Pre-Calculus II (MTH 164) (If not taken as dual enrollment)	Electronic Devices I (ETR 121) (If not taken as dual enrollment)	Industrial Electricity Applications (ETR 145)		
	Year 2 1st Semester	Humanities Elective	Principals of Lasers and Fiber Optics (ETR 231) (If not taken as dual enrollment)	Calculus I (MTH 173) (If not taken as dual enrollment)	Physics (PHY 201)	Programmable Controllers ELE 239	Digital Logic Circuits (ETR 179)		
	Year 2 2nd Semester	Linear Integrated Circuits (ETR 259)	Network Analysis (ETR 215)	Network Analysis Lab (ETR 217)	Physics (PHY 202)	Computer Electronics (ETR 273)			
4-year Institution	University/College: Old Dominion University								
	Degree or Major: Electrical Eng. Tech.					*Dual Credit or Articulated (HS to CC)			
	Number of Articulated CC Credits:								

CAREER PATHWAY SUPPLEMENTAL INFORMATION

TOPIC: Career-Technical Student Organization Related Activities	TOPIC: Work-Based Learning (Cooperative Education, Mentoring, Internships, Job Shadowing, and Service Learning)
<p>Skills USA Related Activities:</p> <p>3-D Visualization and Animation Architectural Drafting Automated Manufacturing Technology CNC Milling Technology CNC Turning Technology Customer Service Electronics Applications Electronics Technology Entrepreneurship Mechatronics Occupational Health and Safety Power Equipment Technology Precision Machining Technology Principles of Technology Related Technical Math Robotics and Automation Technology Sheet Metal TeamWorks Technical Drafting Total Quality Management Welding</p>	<p><u>COOPERATIVE EDUCATION</u> Cooperative education is a method of instruction that combines career and technical classroom instruction with directly related paid employment. <i>The Career and Technical Education Cooperative Education Handbook</i> provides detailed information concerning development, regulations, teacher qualifications, and operation and management. Co-op is available through the following related courses in this pathway: Accounting; Advanced Computer Information Systems; Computer Information Systems; Design, Multimedia, and Web Technologies; and Digital Input Technologies.</p> <p><u>JOB SHADOWING</u> Job shadowing is a short-term, career-exploration form of work site experience in which the student “shadows” (follows) a competent worker for a brief period of time. Job shadowing usually is the first form of work site assignment given to students and is less intensive than mentoring, internship, and service learning.</p> <p><u>MENTORING</u> Mentoring is a relationship between an experienced person (the mentor) and a less experienced person, such as a student (the mentee), in which the mentor provides guidance, support, feedback and skill instruction to the mentee. School-coordinated mentoring is more complex than job shadowing but tends to be less demanding and possibly shorter in duration than an internship or service learning.</p> <p><u>INTERNSHIP</u> An internship is a planned, progressive, structured educational activity or program that enables students to practice and develop career-related skills in a real workplace environment. An internship is more complex than job shadowing and mentoring when they are offered as separate programs.</p> <p><u>SERVICE LEARNING</u> Service learning is a community-based form of the work-based learning experience in which students and teachers cooperate with their locality to address problems and issues by applying knowledge and skills from several courses or from a total program.</p>

Electronics Technology with Specialization in Electrical Engineering Technology (EET)

Associate of Applied Science Degree

The two-year program in Electrical Engineering Technology (EET) prepares the graduate for the EET bachelor's degree program at Old Dominion University. Students take courses in A.C. and D.C. circuits, electronic devices and circuits, digital electronics, microprocessors, fiber optics and robotics. Supporting laboratories provide experience in testing and trouble-shooting, instrumentation and modeling and simulation. Graduates are qualified for entry level positions in electronic and electrical system operation and maintenance, field operations and other technical functions. Students are eligible to take the certification exam upon completion of the fiber optics course.

General Education Courses

Course #	Course Title	Credits
ENG 111	College Composition I	3
ENG 115	Technical Writing (ENG 112 College Composition II – pending curricula change)	3
----	Humanities Elective 1	3
----	Social Science Electives 1	6
MTH 163 - 164	Precalculus I and II	3 - 3
MTH 173	Calculus I	4
PHY 201 - 202	Physics with Lab	4 - 4
HLT / PED	Health or Physical Education Elective(s)	2
SDV 100	College Success Skills	1
Total General Education Course Credits		36

Major and Other Courses

Course #	Course Title	Credits
ELE 239	Programmable Controllers	3
ETR 115	DC and AC Circuits	3
ETR 121	Electronic Devices I	3
ETR 126	Electronic Troubleshooting	3
ETR 145	Industrial Electricity Applications	2
ETR 179	Digital Logic Circuits	3
ETR 215	Network Analysis	3
ETR 217	Network Analysis Lab	1
ETR 231	Laser and Fiber Optics I	3
ETR 259	Linear Integrated Circuits	3
ETR 273	Computer Electronics I	3
MEC 100	Introduction to Engineering Technology	2
Total Major and Other Course Credits		32
Total Minimum Credits		68



Career Cluster: Science, Technology, Engineering and Mathematics

Career Pathway: Engineering and Technology

Technical Studies: Mechanical Engineering Technology

Related Industry Certifications Available: NOCTI/CAD

	Grade	English	Math	Science	S.S.	Required Courses or Recommended Electives and/or CTE Courses		
Middle School	7					Inventions and Innovations (8461)		
	8		Math 8 Or Algebra I 3130			Technological Systems (8462)		

Career Assessment: Administration of a career assessment instrument is appropriate at the middle-school level to help students and their parents plan for high school (Virginia's Career Planning System or other assessment product).

	Grade	English	Math	Science	S.S.	Required Courses or Recommended Electives and/or CTE Courses			Related Careers
-SECONDARY Career Coaching,	9	English 9 1130	Algebra I 3130 Or Geometry 3143 Or Algebra II 3135	Earth Science 4210	World History 2340 or Geography 2210	Health & PE and For. Language (if necessary)	Basic Technical Drawing & Design (8434-8435)	*Intro Engineering Design 8490 (MEC 100) or *Introduction to Eng. Design PLTW 8436 (MEC 100) (DRF 151)	<ul style="list-style-type: none"> • Automated Manufacturing Technician • Calibration Technician • Manager, Supervisor • Quality Control Technician • Quality Engineer • Precision Inspector • Production Manager • Mechanical Engineering Technician • Industrial Engineer Technician • Engineering Assistant • Project Manager

Grade	English	Math	Science	S.S.	Required Courses or Recommended Electives and/or CTE Courses			Related Careers
10	English 10 1140	Geometry 3143 Or Algebra II 3135 Or Alg II/Trig 31371	Biology I 4310	World History 2340 or Geography 2221	Health & PE and For. Language (if necessary)	*Engineering Drawing/Computer Drawing & Design (8436 and 8493) (DRF 151)	*Intro Engineering Design 8490 MEC 100) or *Principles of Engineering PLTW 8490 (MEC 100)	•
11	English 11 1150	Geometry 3143 Or Algebra II 3135 Or Trigonometry/ Discrete Math 3150/3154 Or Math analysis 3162	Chemistry 4410	US/VA History 2360	For. Lang (if necessary)	Manufacturing Systems 8425	*Computer Integrated Manufacturing PLTW 8425 (Tech Elective ODU)*	
12	*English 12 1160 (Eng 111/112)	Trigonometry/ Discrete Math 3150/3154 Or Math analysis 3162 Or *Pre-Calculus (MTH 163-164) Or *Calculus 31601 (MTH 173)	Physics 45101 Or *College Physics (PHY 201-202) Or Other Science	US/VA Gov 2440	Advanced Engineering Design 8438	*Materials and Processes (MEC 113) *CATIA (DRF 241) *Statics for Engineering Tech (MEC 131) *Strengths of Materials (MEC 132)	Advanced Eng. Design PLTW 8438 Engineering Design & Dev. PLTW 8491	

Postsecondary Placement Assessments (<i>Reading, Writing, & Math</i>)									
POSTSECONDARY Community College <i>Career Placement</i>	Year 1 1st Semester	College Composition I (ENG 111) (If not taken as dual enrollment)	Pre-Calculus I (MTH 163) (If not taken as dual enrollment)	College Success Skills (SDV 100)	Engineering Drawing Fundamentals (DRF 151) (If not taken as dual enrollment)	Materials and Processes of Industry (MEC 113) (If not taken as dual enrollment)	Intro to Eng. Tech (MEC 100) (If not taken as dual enrollment)		
	Year 1 2nd Semester	Principles of Economics I (ECO 201)	Social Science Elective	College Composition II (ENG 112) (If not taken as dual enrollment)	Health or PE Elective (HLT/PED)	Pre-Calculus II (MTH 164) (If not taken as dual enrollment)	Mechanics I-Statics for Engineering Tech (MEC 131) (If not taken as dual enrollment)		
	Year 2 1st Semester	Adv. Tech. Drafting I Or Parametric Solid Modeling (DRF 211 or 241) (If not taken as dual enrollment)	Mechanics II-Strength of Materials for Eng. Tech. (MEC 132) (If not taken as dual enrollment)	College Physics PHY 201	Calculus I (MTH 173) (If not taken as dual enrollment)	Electronic Circuits and Instrumentation (MEC 103)	Elective chosen from MEC, DRF, or IND 145		
	Year 2 2nd Semester	Humanities Elective	College Chemistry (CHM 111)	Mechanics III—Dynamics for Eng. Tech (MEC 133)	College Physics (PHY 202)	Basic Fluids Mechanic-Hydraulics/Pneumatics (MEC 161) Or Polymers and Composites (MEC 220)			
4-year Institution	University/College: Old Dominion University								
	Degree or Major: Mechanical Eng. Tech.								
	Number of Articulated CC Credits:								
						*Dual Credit course (HS to CC)			

CAREER PATHWAY SUPPLEMENTAL INFORMATION

TOPIC: Career-Technical Student Organization Related Activities	TOPIC: Work-Based Learning (Cooperative Education, Mentoring, Internships, Job Shadowing, and Service Learning)
<p>Skills USA Related Activities:</p> <ul style="list-style-type: none"> 3-D Visualization and Animation Architectural Drafting Automated Manufacturing Technology CNC Milling Technology CNC Turning Technology Customer Service Electronics Applications Electronics Technology Entrepreneurship Mechatronics Occupational Health and Safety Power Equipment Technology Precision Machining Technology Principles of Technology Related Technical Math Robotics and Automation Technology Sheet Metal TeamWorks Technical Drafting Total Quality Management Welding 	<p><u>COOPERATIVE EDUCATION</u> Cooperative education is a method of instruction that combines career and technical classroom instruction with directly related paid employment. <i>The Career and Technical Education Cooperative Education Handbook</i> provides detailed information concerning development, regulations, teacher qualifications, and operation and management. Co-op is available through the following related courses in this pathway: Accounting; Advanced Computer Information Systems; Computer Information Systems; Design, Multimedia, and Web Technologies; and Digital Input Technologies.</p> <p><u>JOB SHADOWING</u> Job shadowing is a short-term, career-exploration form of work site experience in which the student “shadows” (follows) a competent worker for a brief period of time. Job shadowing usually is the first form of work site assignment given to students and is less intensive than mentoring, internship, and service learning</p> <p><u>MENTORING</u> Mentoring is a relationship between an experienced person (the mentor) and a less experienced person, such as a student (the mentee), in which the mentor provides guidance, support, feedback and skill instruction to the mentee. School-coordinated mentoring is more complex than job shadowing but tends to be less demanding and possibly shorter in duration than an internship or service learning.</p> <p><u>INTERNSHIP</u> An internship is a planned, progressive, structured educational activity or program that enables students to practice and develop career-related skills in a real workplace environment. An internship is more complex than job shadowing and mentoring when they are offered as separate programs.</p> <p><u>SERVICE LEARNING</u> Service learning is a community-based form of the work-based learning experience in which students and teachers cooperate with their locality to address problems and issues by applying knowledge and skills from several courses or from a total program.</p>

Mechanical Engineering Technology (MET)

Associate of Applied Science Degree

The two year program in Mechanical Engineering Technology (MET) prepares the graduate for the MET bachelor's degree program at Old Dominion University. Students take courses in computer-aided drafting and design, solid modeling, statics, strength of materials, composites, and dynamics. Graduates are qualified for entry level technical positions in fabrication, manufacturing, and technical support in both the public and private sectors.

General Education Courses

Course #	Course Title	Credits
ENG 111	College Composition I	3
ENG 115	Technical Writing (ENG 112 College Composition II – pending curricula change)	3
----	Humanities Elective *	3
ECO 201	Principles of Economics I	3
----	Social Science Elective *	3
MTH 163-164	Precalculus I and II	3-3
PHY 201 - 202	Physics with Lab	4 - 4
HLT / PED	Health or Physical Education Elective(s)	1
SDV 100	College Success Skills	1
	Total General Education Course Credits	31

Major and Other Courses

Course #	Course Title	Credits
CHM 111	College Chemistry I	4
DRF 151	Engineering Drawing Fundamentals I	3
DRF 211 or 241	Advanced Technical Drafting I or Parametric Solid Modeling I	3
----	Elective *	3
MEC 100	Introduction to Engineering Technology	2
MEC 103	Electronic Circuits and Instrumentation	4
MEC 113	Materials and Processes of Industry	3
MEC 131	Mechanics I – Statics for Engineering Technology	3
MEC 132	Mechanics II – Strength of Materials	3
MEC 133	Mechanics III – Dynamics for Engineering Technology	2
MEC 161 or MEC 220	Basic Fluid Mechanics/Hydraulics/Pneumatics or Polymers and Composites	3
MTH 173	Calculus I	4
	Total Major and Other Course Credits	37
	Total Minimum Credits	68

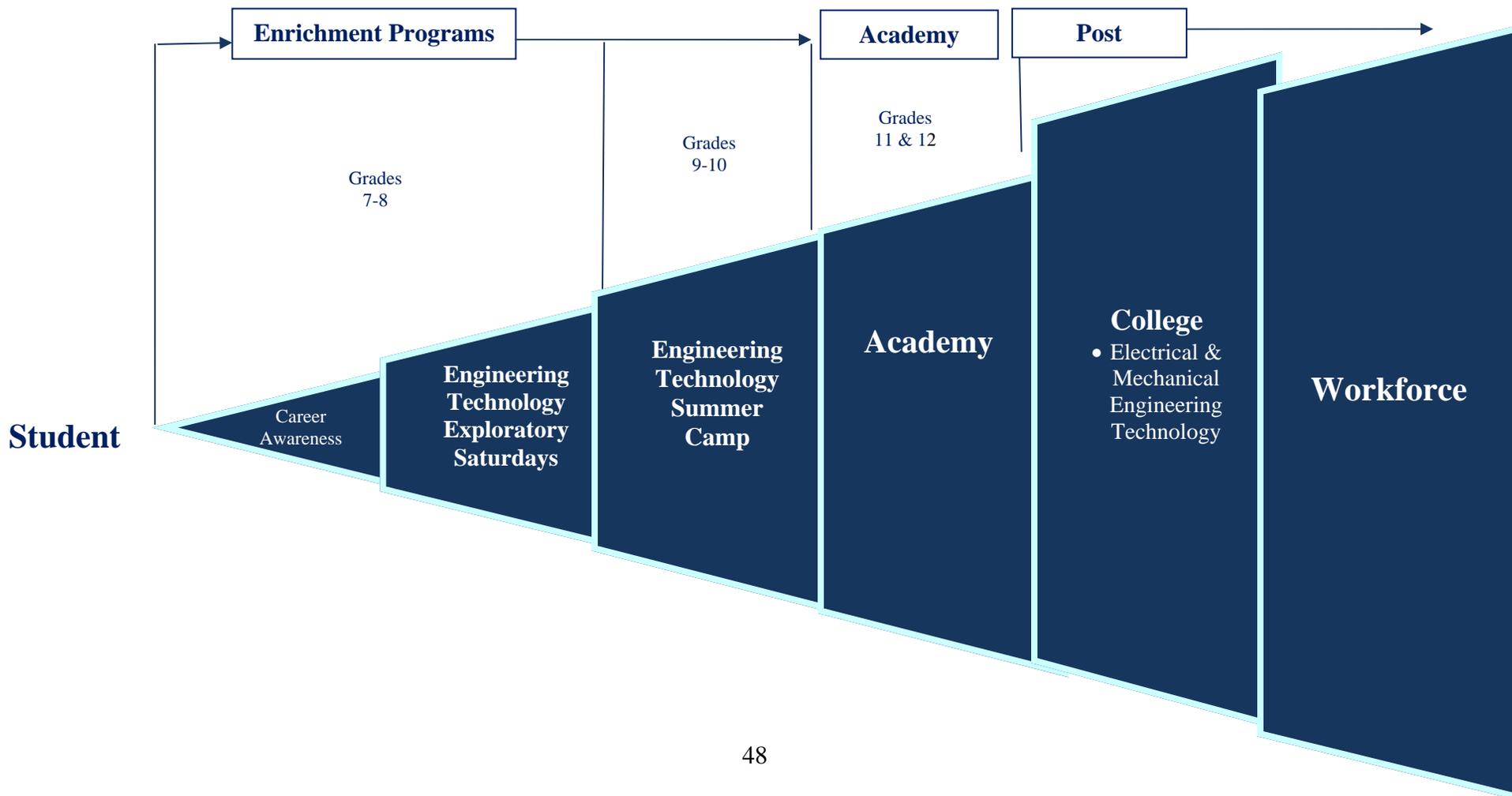
*Electives may be selected from MEC, DRF, or IND 145.

APPENDIX B

Flow Chart

GAITE Academy for Engineering Technology

Student Progression



APPENDIX C

Advisory Council Forms

GAITE Planning /Advisory Committee

Name	Affiliation	Address	Telephone	Email
J. Joseph Johnson, III	New Horizons	520 Butler Farm Rd, Hampton, VA 26666	(757) 766-0000	jjohnson@nhrec.org
Dave Creamer	New Horizons	Same	(757) 766-1100	dcreamer@nhrec.org
Chris Carter	Virginia Space Grant Consortium	600 Butler Farm Road, Suite 200 Hampton, VA 23666	(757) 766-5210	excarter@odu.edu
Dr. Marilyn Barr	Poquoson Public Schools	PO Drawer 2068 Poquoson, VA 23662	(757) 868-3055	mbarr@sbo.poquoson.k12.va.us
Jesse White	Hampton City Schools	One Franklin Street Hampton, VA 23669	(757) 727-2466	jeswhite@sbo.hampton.k12.va.us
Jason Perry	Gloucester Public Schools	6489 Main Street Bldg 2 Gloucester, VA 23061	(804) 693-7910	jperry@gc.k12.va.us
Barbara Simmons	Williamsburg-James City County Public Schools	PO Box 8783 Williamsburg, VA 23187	(757) 253-6779	SimmonsB@wjcc.k12.va.us
Barbara Smith-White	Newport News City Public Schools	12465 Warwick Blvd. Newport News, VA 23606	(757) 591-4567	Barbara.smithwhite@nn.k12.va.us
Eleanor Blowe	Newport News City Public School	12465 Warwick Blvd. Newport News, VA 23606	(757) 591-4577	Eleanor.Blowe@nn.k12.va.us
Sandra Hespe	York County Public Schools	302 Dare Road Yorktown, VA 23692	(757) 898-0469	shespe@ycsd.york.va.us
Patricia Taylor	Thomas Nelson Community College	PO Box 9407 Hampton, VA 23670	(757) 825-2898	taylorp@tncc.edu
Dr. Crystal Taylor	Thomas Nelson Community College	PO Box 9407 Hampton, VA 23670	(757) 825-2706	taylorcb@tncc.edu
Mary Dunnigan	Peninsula Council for Workforce Development	21 Enterprise Parkway, Ste. 200 Hampton, VA 23666	(757) 826-3327	mdunnigan@pcfwd.org
Dr. Robert Leber	Northrop Grumman Apprenticeship School	4101 Washington Ave. Newport News, VA 23607	(757) 688-4412	Robert.Leber@ngc.com
Roger Hathaway	NASA Langley Research Center	Mail Stop 400 Langley Research Center Hampton, VA 23681	(757) 864-6300	roger.a.hathaway@nasa.gov
Gary R. Crossman	Old Dominion University	214 Kaufman Hall Norfolk, VA 23529	(757) 683-3768	gcrossma@odu.edu
Gregory Dudley	Cooperating Hampton Roads Organization for Minorities in Engineering (CHROME)	4101 Washington Ave. Newport News, VA 23607	(757) 380-2000	gregory.dudley@ngc.com



Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

I, J. Joseph Johnson Executive Director
(Name) (Title)

with New Horizons Regional Educ. Centers, do hereby certify
(Name of Business, Organization, School)

that I will be a member and active participant on the *Governor's Academy*
for Innovation, Technology and Engineering Advisory Council.

[Handwritten Signature]
(Signature)

3/30/08
(Date)

New Horizons Regional Education Centers
Career and Technical Education Center

GAITE

(Governors Academy for Innovation, Technology and Engineering)

Advisory Council

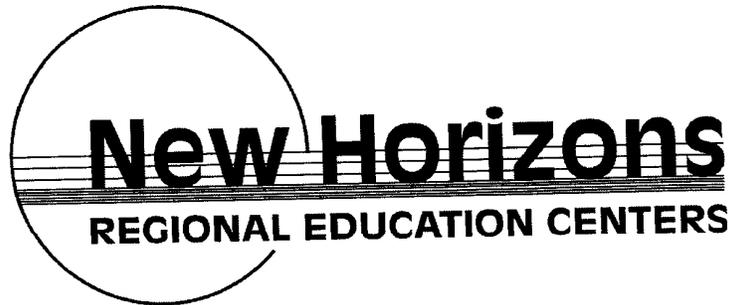
I, DAVID A. CREAMER, Principal,
(Name) (Title)

with NEW HORIZONS CTEC, do hereby certify
(Name of Business, Organization, School)

that I will be a member and participant of the Advisory Council for The New Horizons Regional Education Centers' *Governor's Academy for Innovation, Technology and Engineering.*

David A. Creamer
(Signature)

7/20/08
(Date)



Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

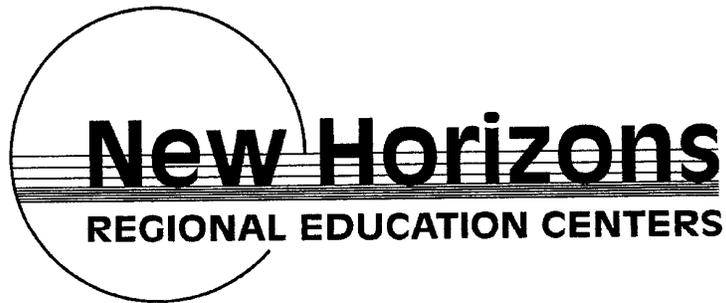
I, CHRIS CARTER, ASSISTANT DIRECTOR,
(Name) (Title)

with VIRGINIA SPACE GRANT CONSORTIUM, do hereby certify
(Name of Business, Organization, School)

that I will be a member and active participant on the *Governor's Academy*
for Innovation, Technology and Engineering Advisory Council.

Chris Carter
(Signature)

3/20/08
(Date)



Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

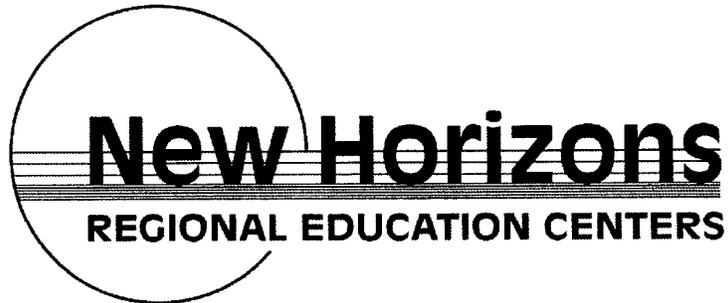
I, Maubyn Barone Deacon Interim Superintendent
(Name) (Title)

with Passaic County Schools, do hereby certify
(Name of Business, Organization, School)

that I will be a member and active participant on the *Governor's Academy for Innovation, Technology and Engineering* Advisory Council.

Maubyn Barone
(Signature)

3-11-08
(Date)



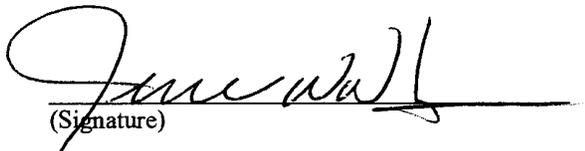
Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

I, Jesse W. White, Career and Technical Education Curriculum Leader,
(Name) (Title)

with Hampton City Schools, do hereby certify that I will be a member
(Name of Business, Organization, School)

and active participant on the *Governor's Academy for Innovation, Technology and
Engineering* Advisory Council.


(Signature)

20 MAR 2008
(Date)

New Horizons Regional Education Centers

Career and Technical Education Center

GAITE

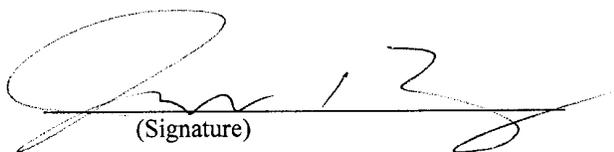
(Governors Academy for Innovation, Technology and Engineering)

Advisory Council

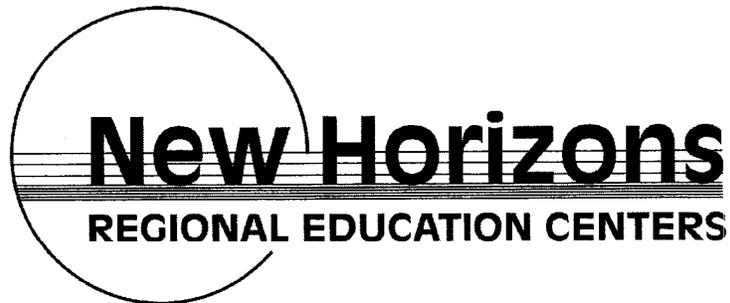
I, JASON PERRY, CTE DIRECTOR,
(Name) (Title)

with GLoucester County Public Schools do hereby certify
(Name of Business, Organization, School)

that I will be a member and participant of the Advisory Council for The New Horizons Regional Education Centers' *Governor's Academy for Innovation, Technology and Engineering.*


(Signature)

2-27-08
(Date)



Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

I, Barbara Simmons, Coordinator of Career & Technical Education,
(Name) (Title)

with Williamsburg/James City County Public Schools, do hereby certify
(Name of Business, Organization, School)

that I will be a member and active participant on the *Governor's Academy*
for Innovation, Technology and Engineering Advisory Council.

Barbara Simmons
(Signature)

March 20, 2008
(Date)

New Horizons Regional Education Centers

Career and Technical Education Center

GAITE

(Governors Academy for Innovation, Technology and Engineering)

Advisory Council

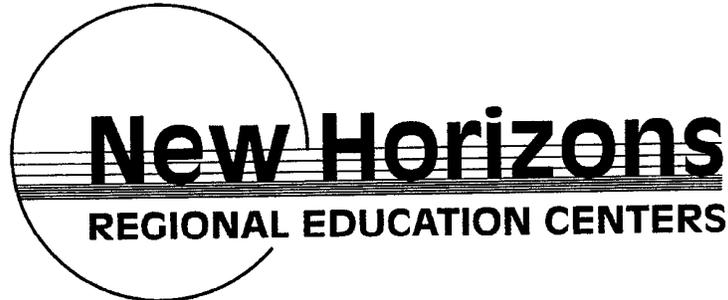
I, Barbara Smith-White, CTE-Instructional Supervisor
(Name) (Title)

with Newport News Public Schools, do hereby certify
(Name of Business, Organization, School)

that I will be a member and participant of the Advisory Council for The New Horizons Regional Education Centers' *Governor's Academy for Innovation, Technology and Engineering.*

Barbara D Smith-White
(Signature)

3/10/08
(Date)



Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

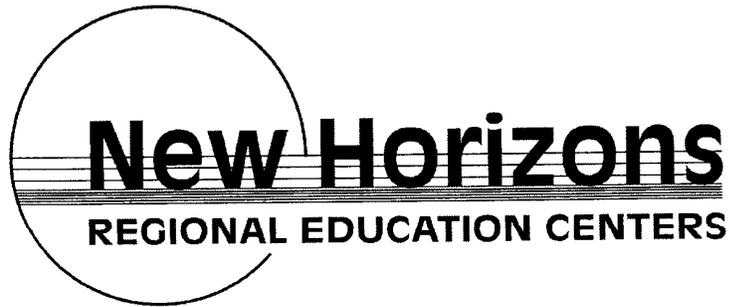
I, Eleanor H. Blowe, Instructional Supervisor - CTE
(Name) (Title)

with Newport News Public Schools, do hereby certify
(Name of Business, Organization, School)

that I will be a member and active participant on the *Governor's Academy*
for Innovation, Technology and Engineering Advisory Council.

Eleanor H. Blowe
(Signature)

3/10/08
(Date)



Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

I, Sandy Hespe, Instructional Specialist,
(Name) (Title)

with York County School Division, do hereby certify
(Name of Business, Organization, School)

that I will be a member and active participant on the *Governor's Academy*
for Innovation, Technology and Engineering Advisory Council.

Sandy Hespe
(Signature)

March 19, 2008
(Date)

New Horizons Regional Education Centers

Career and Technical Education Center

GAITE

(Governors Academy for Innovation, Technology and Engineering)

Advisory Council

I, Patricia P Taylor, Dean of Mathematics, Engineering and Technologies,
(Name) (Title)

with Thomas Nelson Community College, do hereby certify
(Name of Business, Organization, School)

that I will be a member and participant of the Advisory Council for The New Horizons Regional Education Centers' *Governor's Academy for Innovation, Technology and Engineering.*

Pat Taylor
(Signature)

February 26, 2008
(Date)

New Horizons Regional Education Centers

Career and Technical Education Center

GAITE

(Governors Academy for Innovation, Technology and Engineering)

Advisory Council

I, Crystal B. Taylor, Director of Outreach and Recruitment,
(Name) (Title)

with Thomas Nelson Community College, do hereby certify
(Name of Business, Organization, School)

that I will be a member and participant of the Advisory Council for The New Horizons Regional Education Centers' *Governor's Academy for Innovation, Technology and Engineering.*



(Signature)

February 26, 2008

(Date)

New Horizons Regional Education Centers
Career and Technical Education Center

GAITE

(Governors Academy for Innovation, Technology and Engineering)

Advisory Council

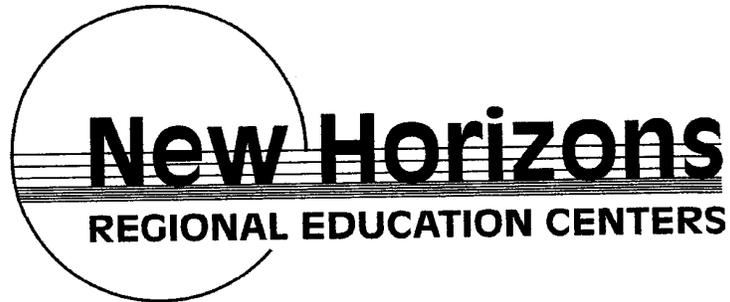
I, Mary M. Durnigan, Workforce Development Specialist
(Name) (Title)

with Parasula Council for Workforce Dev., do hereby certify
(Name of Business, Organization, School)

that I will be a member and participant of the Advisory Council for The New Horizons Regional Education Centers' *Governor's Academy for Innovation, Technology and Engineering.*

Mary M. Durnigan
(Signature)

March 3, 2008
(Date)



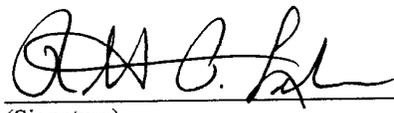
Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

I, Dr. Robert P. Leber, Director, Education and Workforce Development,
(Name) (Title)

with The Apprentice School at Northrop Grumman Shipbuilding, do hereby certify
(Name of Business, Organization, School)

that I will be a member and active participant on the *Governor's Academy*
for Innovation, Technology and Engineering Advisory Council.



(Signature)

March 26, 2008
(Date)

Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

I, Roger Hathaway, Head, Office of Education

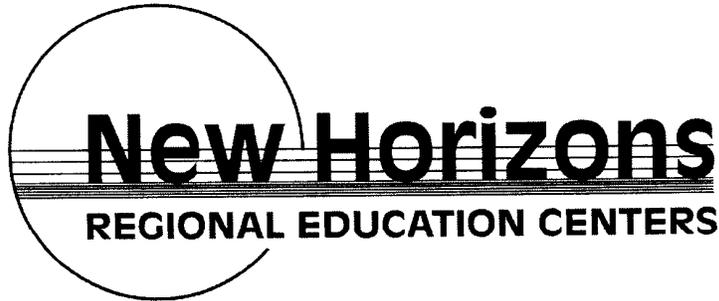
with NASA Langley Research Center, do hereby certify

(Name) (Title)
(Name of Business, Organization, School)

that I will be a member and active participant on the *Governor's Academy*
for Innovation, Technology and Engineering Advisory Council.

Roger Hathaway
(Signature)

4/14/08
(Date)



Governors Academy for Innovation,
Technology and Engineering
(GAITE)

Advisory Council

I, Gary R. Crossman, Chair, Dept. of Engineering, Technology
(Name) (Title)

with Old Dominion University, do hereby certify
(Name of Business, Organization, School)

that I will be a member and active participant on the *Governor's Academy*
for Innovation, Technology and Engineering Advisory Council.


(Signature)

March 10, 2008
(Date)

New Horizons Regional Education Centers

Career and Technical Education Center

GAITE

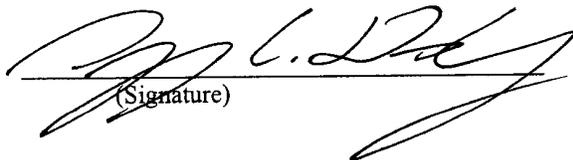
(Governors Academy for Innovation, Technology and Engineering)

Advisory Council

I, Gregory C. Dudley, Board Chair,
(Name) (Title)

with CHROME, do hereby certify
(Name of Business, Organization, School)

that I will be a member and participant of the Advisory Council for The New Horizons Regional Education Centers' *Governor's Academy for Innovation, Technology and Engineering.*


(Signature)

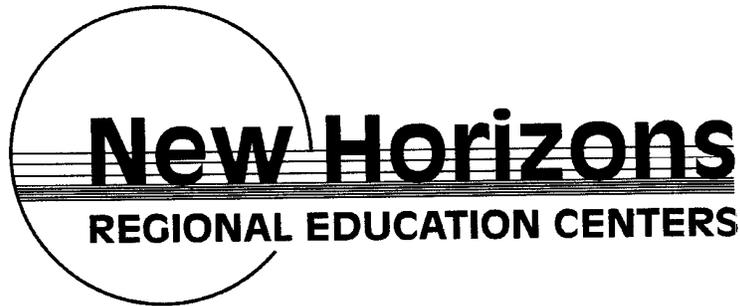
3-10-08
(Date)

APPENDIX D

Memorandum of Agreement (MOA)

GAITE Partners

	Partner Name	Partner Representative	Representative's Position
Lead Partner	New Horizons Regional Education Centers	Mr. J. Joseph Johnson, III	Executive Director
2	Gloucester County Schools	Dr. Ben Kiser	Superintendent
3	Williamsburg-James City County Schools	Dr. Gary Mathews	Superintendent
4	Poquoson City Schools	Dr. Marilyn Barr	Superintendent
5	York County Schools	Dr. Steven Staples	Superintendent
6	Newport News City Schools	Dr. Ashby Kilgore	Superintendent
7	Hampton City Schools	Dr. Patrick Russo	Superintendent
8	Virginia Space Grant Consortium	Mrs. Mary L. Sandy	Director
9	Thomas Nelson Community College	Dr. Charles Taylor	President
10	Old Dominion University	Gary R. Crossman	Chair, Department of Engineering Technology
11	Northrop Grumman Corporation	Mr. William C. Bell	Sector Director, HR Operations and Employment
12	Northrop Grumman Apprentice School	Dr. James H. Hughes	Manager, Training
13	Peninsula Council for Workforce Development	Mr. Matthew James	President
14	Greater Peninsula Workforce Investment Board	Dr. Robert P. Leber	Chairman of the Board
15	New Horizons Career and Technical Advisory Committee	Mrs. Jan Archibald	Chairman
16	Cooperating Hampton Roads Organization for Minorities in Engineering (CHROME)	Mr. Gregory C. Dudley	Board Chair



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

PARTNER NAME: New Horizons Regional Education Centers

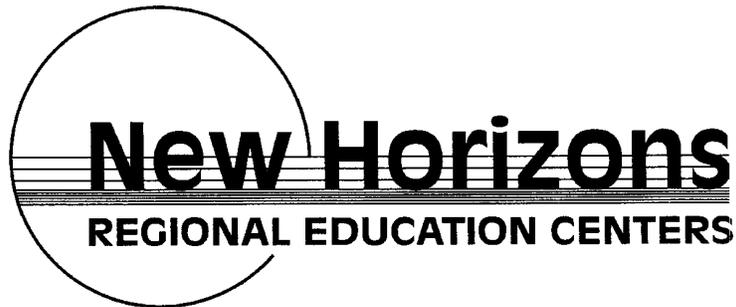
PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

Education

APPROVING SIGNATURE

TITLE: Executive Director

DATE: 3/30/08



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

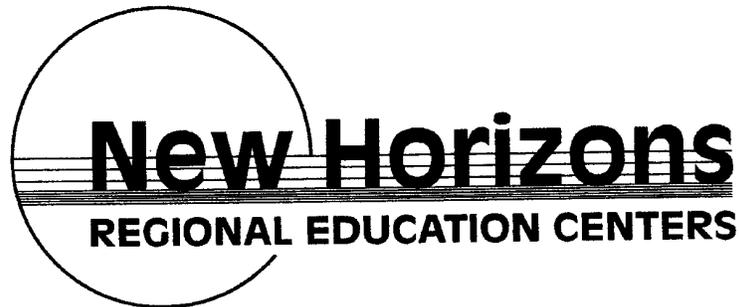
New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

PARTNER NAME: GLoucester Co. Schools

PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

 APPROVING SIGNATURE 
 TITLE: SUPERINTENDENT
 DATE: 2/28/08



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:

New Horizons Regional Education Center (NHREC) agrees to:

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

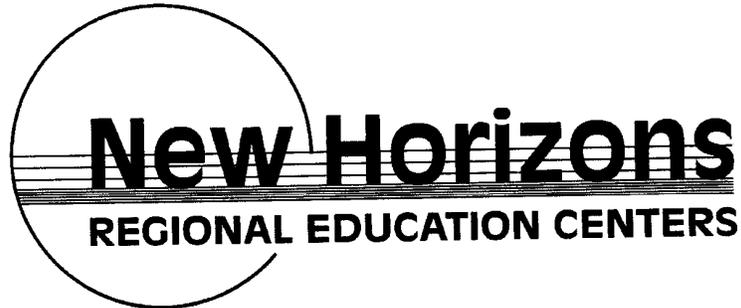
PARTNER NAME: W-JCC Public Schs.

PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

APPROVING SIGNATURE

TITLE: Superintendent

DATE: 3/20/08



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

New Horizons Regional Education Centers

DATE: 1/30/08

PARTNER

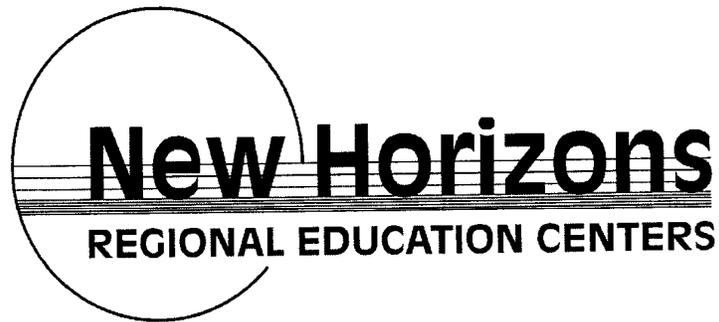
PARTNER NAME: Pogvoson

PARNTER CLUSTER (K-12, post-secondary, business, non-profit, etc)

APPROVING SIGNATURE Marilyn F. Ban

TITLE: Interim Superintendent

DATE: 3-11-08



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR’S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor’s Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor’s Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC’s role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor’s Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

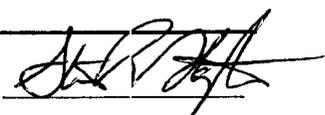
GAITE

New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

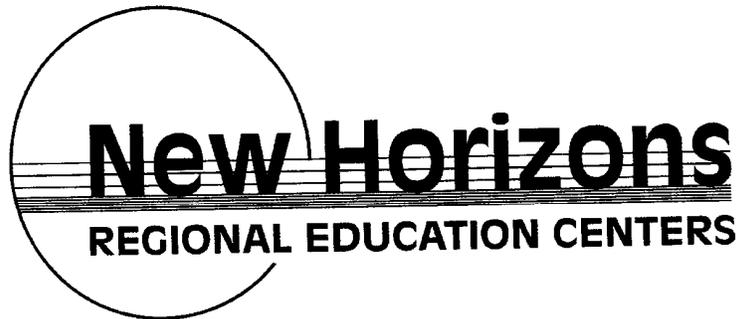
PARTNER NAME: York County School Division

PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

APPROVING SIGNATURE 

TITLE: Superintendent

DATE: 03/19/08



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

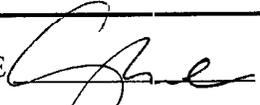
By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

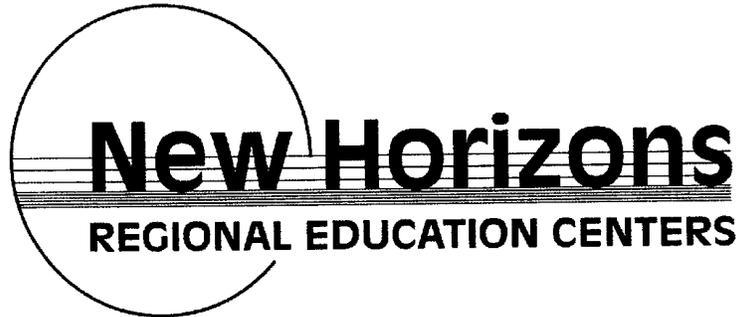
GAITE

New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

PARTNER NAME: Newport News Public Schools
PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

APPROVING SIGNATURE 
TITLE: Superintendent
DATE: March 11, 2008



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

PARTNER NAME: Hampton City Schools

PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

K-12

APPROVING SIGNATURE



TITLE: Superintendent of Schools

DATE: 3/21/08





**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:

New Horizons Regional Education Center (NHREC) agrees to:

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

DATE: 1/30/08

New Horizons Regional Education Centers

PARTNER

PARTNER NAME: VIRGINIA SPACE GRANT
CONSORTIUM

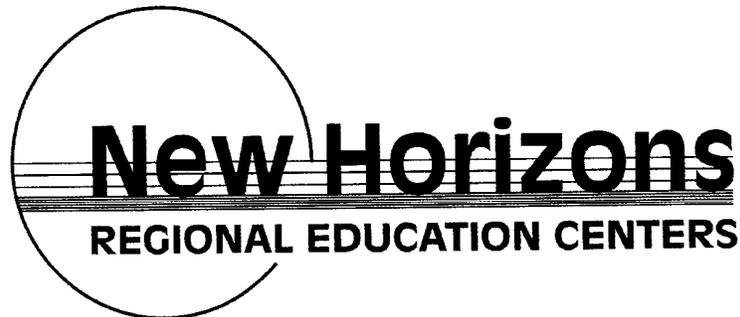
PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

POST-SECONDARY/K-12 / NON PROFIT

APPROVING SIGNATURE Mary L. Andy

TITLE: DIRECTOR

DATE: 3/20/08



**MEMORANDUM OF AGREEMENT
 BETWEEN
 THOMAS NELSON COMMUNITY COLLEGE
 AND
 GOVERNOR’S ACADEMY FOR INNOVATION, TECHNOLOGY AND
 ENGINEERING (GAITE)**

Thomas Nelson Community College AND GAITE agrees to enter into this Agreement to support the Governor’s Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead agency for the Governor’s Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC role as lead agency will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor’s Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be March 24, 2008 through June 30, 2009 and will be extended forward annually unless modified by written agreement of the parties or terminated by either party with 60 days prior written notice.

AGREEMENT:

New Horizons Regional Education Center (NHREC) agrees to:

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education: (Thomas Nelson Community College (TNCC), Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the faculty, labs, and instructional support within budget required to implement GAITE Academy courses taught on the Thomas Nelson Community College campus or delivered from the TNCC campus as video or distance courses
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support for GAITE Academy courses taught on the Thomas Nelson Community College campus or delivered from the TNCC campus as video or distance courses
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

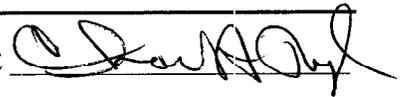
GAITE

New Horizons Regional Education Centers
DATE: 1/30/08

Thomas Nelson Community College

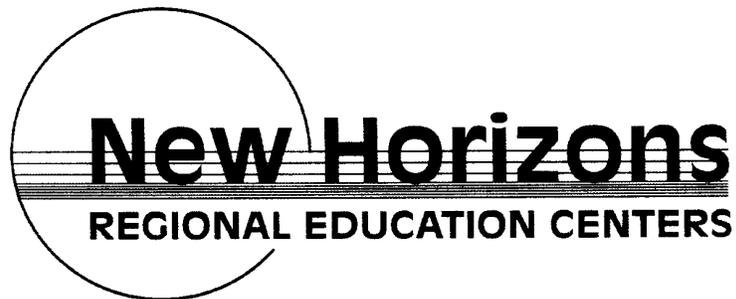
CLUSTER : post-secondary

APPROVING SIGNATURE _____



TITLE: President

DATE: March 26, 2008



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

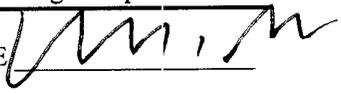
New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

PARTNER NAME: William Bell

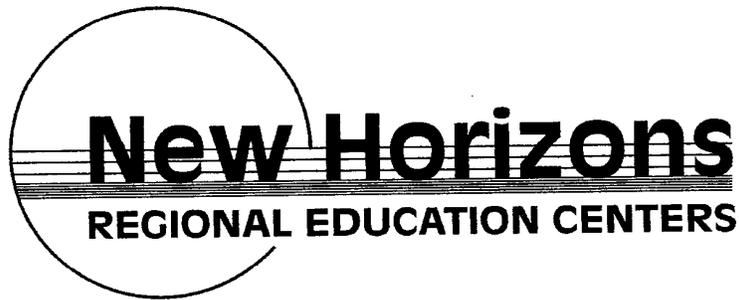
PARNTER CLUSTER (K-12, post-secondary,
business, non-profit, etc)

Northrop Grumman Shipbuilding Newport News

APPROVING SIGNATURE 

TITLE: Sector Director, HR Operations and
Employment

DATE: March 28, 2008



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman Shipbuilding, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

New Horizons Regional Education Centers

DATE: 1/30/08

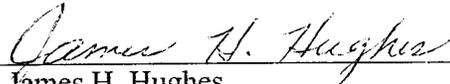
PARTNER

PARTNER NAME: The Apprentice School at Northrop Grumman Shipbuilding

PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

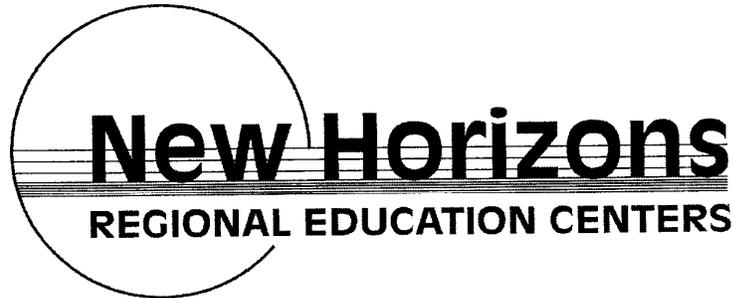
Post-Secondary Educational Institution

APPROVING SIGNATURE



Dr. James H. Hughes
TITLE: Manager, Training Programs

DATE: March 27, 2008



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:

New Horizons Regional Education Center (NHREC) agrees to:

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

New Horizons Regional Education Centers

DATE: 1/30/08

PARTNER

PENINSULA COUNCIL FOR

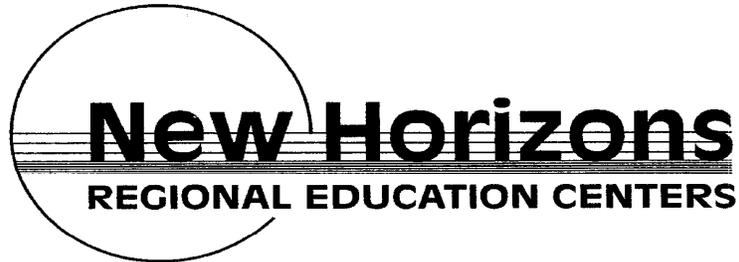
PARTNER NAME: *WORKFORCE DEVELOPMENT*

PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

- APPROVING SIGNATURE

TITLE: *PRESIDENT/CEO*

DATE: *3-3-08*



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:

New Horizons Regional Education Center (NHREC) agrees to:

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman Shipbuilding, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

New Horizons Regional Education Centers

DATE: 1/30/08

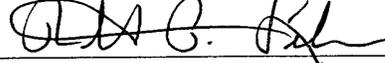
PARTNER

PARTNER NAME: Greater Peninsula Workforce Investment Board

PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

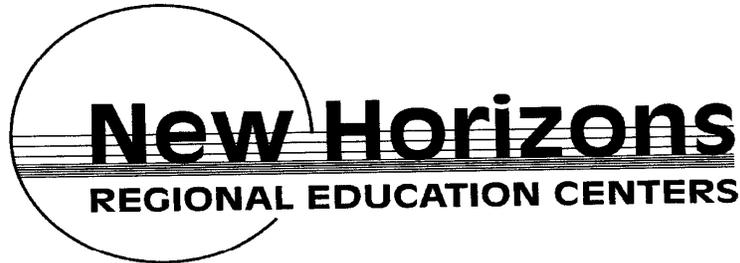
Demand-Driven Workforce Investment Board

APPROVING SIGNATURE



Dr. Robert P. Leber
TITLE: Chairman, GPWIB

DATE: March 26, 2008



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

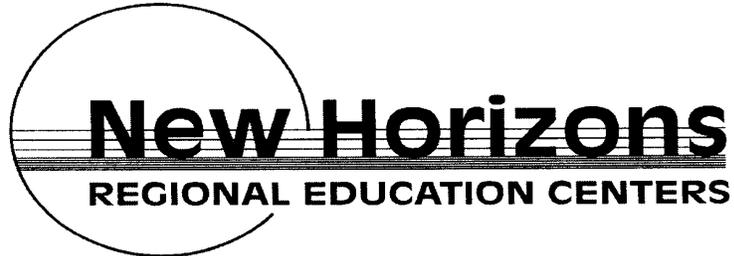
GAITE

New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

PARTNER NAME: New Horizons Career and Technical Advisory Committee
PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

APPROVING SIGNATURE [Signature]
TITLE: Chairman NHREC C+T advisory committee
DATE: 27 MAR. 2008



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:**New Horizons Regional Education Center (NHREC) agrees to:**

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties

- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

University Partner: (Old Dominion University)

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies
- Provide use of ODU Peninsula Center to broadcast courses under future agreements to be negotiated.

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

PARTNER NAME: Old Dominion University

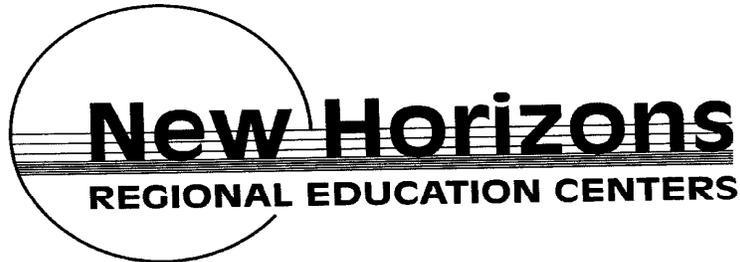
PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

APPROVING SIGNATURE



TITLE: Associate VP for Academic Affairs

DATE: March 38, 2008



**MEMORANDUM OF AGREEMENT
BETWEEN
PARTNER
AND
GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND
ENGINEERING (GAITE)**

PARTNERS AND GAITE agrees to enter into this Agreement to support the Governor's Career and Technical Academy to broaden the scope of K-12 Science, Technology, Engineering, and Mathematic (STEM) educational experiences. The New Horizons Regional Education Centers (NHREC) is a regional education center, owned and operated by the six Greater Virginia Peninsula school divisions. NHREC will serve as the lead partner for the Governor's Academy for Innovation, Technology and Engineering hereafter referred to as GAITE. NHREC's role as lead partner will be to facilitate the vision, direction and implementation of GAITE.

GAITE Vision:

The Governor's Academy for Innovation, Technology and Engineering (GAITE) will foster a vibrant economy for the Virginia Peninsula and the Commonwealth by creating a culture that educates and trains innovators and technologists necessary for the communities and businesses of the Greater Virginia Peninsula to remain competitive in a global economy. The Academy will direct its initial focus on the STEM career cluster with the development of pathways in Engineering Technologies, particularly Electrical Engineering Technology and Mechanical Engineering Technology. An additional focus will be to increase parent and student awareness, communication, recruitment, and attract students from grades 5 to 16 into STEM careers. The Academy model will plan to expand into other STEM career areas such as geospatial technologies, modeling and simulation, nanotechnology, biotechnology, and other fields of Innovation, Technology and Engineering based upon the workforce needs on the Greater Virginia Peninsula.

MOA TIMEFRAME:

The MEMORANDUM OF AGREEMENT period of performance Agreement shall be January 30, 2008 through June 30, 2009 and will be extended forward annually unless modified or terminated by a partner.

PARTNERS AGREEMENT:

New Horizons Regional Education Center (NHREC) agrees to:

- Serve as the governing body (NHREC Board of Trustees) to reflect current Board of Education regulations relative to jointly operated school and programs as directed by the Department of Education and the code of Virginia
- Serve as Lead Agency and Fiscal Agent for the Academy to the Virginia Department of Education
- Coordinate and report all grant revenue and expenditure with the GAITE Advisory Council
- Provide leadership (GAITE Coordinator) for developing and communicating the vision, direction and implementation of GAITE
- Assure that GAITE complies with all state standards for Governor's Career and Technical Academy as established by the Virginia Department of Education and The State Council for Higher Education in Virginia
- Establish and facilitate a GAITE Advisory Council with partners and sponsors, as well as, advisory committees for the Pre-Academy Series and Academy Program
- Responsible for GAITE program evaluation to include data collection, analysis and state reporting
- Provide Academy documentation and information as requested by the Department of Education
- Coordinate the development and distribution of recruitment and marketing materials
- Coordinate and monitor the implementation of the Pre-Academy Series and Academy Program of Studies
- Coordinate the implementation of staff development initiatives
- Provide for the operational costs, technology and space required for the GAITE Coordinator
- Coordinate all Academy initiatives with the divisional Superintendents and Career and Technical Directors
- Provide GAITE updates to the Board of Trustees and Superintendents

Peninsula Public Schools: The Greater Virginia Peninsula Schools (Gloucester County Schools, Hampton City Schools, Newport News City Schools, Poquoson City Schools, Williamsburg/James City County Schools, York County Schools and New Horizons Regional Education Centers) that enter the partnership agree to:

- Assure that resources are provided to implement Divisional approved GAITE programs
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide school based leadership for the communication and implementation of Pre-Academy Series and Academy Programs as approved
- Provide counseling and other services that promote GAITE and STEM education, career pathways, educational advancement and employment opportunities
- Market, recruit, select and enroll students for Pre-Academy Series and Academy Programs
- Implement strategies to recruit non-traditional and minority representation into GAITE initiatives
- Provide support and resources for Divisional approved programs and activities to be offered at New Horizons
- Assure that all Divisional approved GAITE courses meet accreditation and DOE standards
- Assure that all faculty teaching Divisional approved GAITE courses meet DOE licensure requirements
- Assure that all Divisional approved GAITE courses, whereby students receive dual enrollment college credits, are aligned with content standards and faculty requirements as specified by the college credit granting agency
- Assure that Divisional approved GAITE curriculum represents well-articulated career pathways that meet the requirements for the Governor's Exemplary Standards Award Program, Commonwealth Scholars Course of Study, Virginia's Workplace Readiness Skills, and Virginia Technical or Advanced Technical Diploma
- Provide or assure adequate staff development, support, and credentialing for faculty as required by GAITE courses
- Assure adequate IT hardware, software and technical support to instruction for Divisional approved GAITE courses, i.e. classroom, video, or web based learning
- Provide a contact for the collection, and reporting of data required for the GAITE assessment and evaluation

Post-Secondary Education Partners: (Thomas Nelson Community College, Old Dominion University, The Apprentice School at Northrop Grumman, Virginia Space Grant Consortium, and future partners) agree to:

- Provide the resources, as agreed upon, to implement GAITE courses or activities that meet enrollment requirements
- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs within the participating schools
- Assure that all courses and faculty teaching GAITE courses meet accrediting standards
- Implement strategies to retain and provide a successful experience for non-traditional and minority GAITE students enrolled in courses and/or activities
- Assure that agreements with school divisions and other postsecondary educational entities regarding the earning and transfer of college credits or course work meets compliance requirements for all parties
- Provide for the staff development and release time to support training and credentialing for faculty as needed for GAITE within policies and budget.
- Provide IT hardware, software and technical support to instruction as approved; whether that be classroom, video, or web based learning
- Provide a contact person for the submission of demographic and instructional data for assessment and evaluation of GAITE as appropriate according to organizational policies

Business Sponsors: (NASA Langley Research Center, Northrop Grumman Corporation, Greater Peninsula Workforce Investment Board and future partners) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide technical expertise to assure that the GAITE curriculum and instruction reflects industry standards and prepares students for the intended workforce
- Share GAITE information with other business leaders and recruit additional partners and sponsors
- Provide opportunities, as agreed upon, for GAITE students to receive real world experiences through internships, mentorships, and/or project based learning
- Offer GAITE graduates access to employment opportunities within your organization as agreed upon
- Provide or assist in procuring instructional and professional development resources

Non-Profit Organizations: (Peninsula Council for Workforce Development, Cooperating Hampton Roads Organization for Minorities in Engineering, Virginia Space Grant Consortium) agree to:

- Designate a key contact person to serve as liaison and active participant to the GAITE Advisory Council
- Provide personnel resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Provide financial resources, as agreed upon, to assist in the planning, delivery, or offering of GAITE Pre-Academy and Academy Programs
- Share GAITE information with other business leaders and organizations to recruit additional partners and sponsors
- Assist in the developing and implementing strategies for the recruitment and enrollment of non-traditional and minority students as agreed upon
- Provide or assist in procuring instructional and professional development resources
- Provide organizational leadership for the communication and implementation of agreed upon Pre-Academy Series and Academy Programs

By signing this agreement both institutions agree to be active partners and agree to abide by this agreement.

GAITE

New Horizons Regional Education Centers
DATE: 1/30/08

PARTNER

PARTNER NAME: CHROME

PARTNER CLUSTER (K-12, post-secondary, business, non-profit, etc)

APPROVING SIGNATURE 
 TITLE: Board Chair
 DATE: 3-10-08

APPENDIX E

Statement of Assurances

Governor's Career and Technical Academy

STATEMENT OF ASSURANCES

The authorized signature on this page certifies to the Virginia Department of Education that the authorized official assures that:

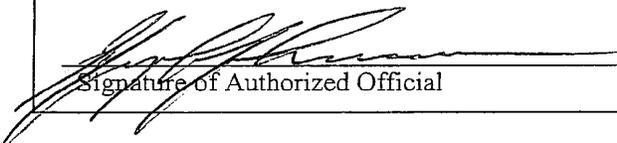
1. The planning committee has reviewed the provisions of *Administrative Procedures Guide for the Establishment of Governor's Career and Technical Academies* outlined in the Guidance Manual, and understands that an implementation proposal will need to address these criteria and/or others approved by the Virginia Board of Education.
2. The planning committee agrees to follow the guidelines set forth in the *Administrative Procedures for the Establishment of Governor's Career and Technical Academies* document.
3. If the Governor's Career and Technical Academy will be a jointly operated program, an ongoing governing board will be established or maintained to reflect current Board of Education regulations relative to jointly operated schools and programs.
4. A public, government entity will serve as the grant fiscal agent.

Certification by Authorized or Institutional Official:

The applicant certifies that to the best of his/her knowledge the information in this application is correct, that the filing of this application is duly authorized by the partners participating in this process to establish a Governor's Career and Technical Academy, and that the applicant will comply with the statement of assurances.

J. Joseph Johnson III
Typed or Printed Name of Authorized Official

Executive Director
Title


Signature of Authorized Official

1/29/08
Date

APPENDIX F

Budget Form

GOVERNOR'S CAREER AND TECHNICAL ACADEMY

BUDGET

A. Direct Costs	TOTAL			
	State Funds	Perkins Funds	Other Funds (Local or grant funds to be described in Budget Narrative)	In-Kind
1. Personnel---1000			\$43,784 (NHREC)	
2. Employee Benefits---2000			\$15,324 (NHREC)	
3. Purchased/Contractual Services--3000	\$44,763			\$20,000 (VSGC)
4. Internal Services---4000				
5. Staff Development---5000				
6. Summer Component Activities--5000				
7. Travel---5000	\$750			
8. Contractual Services---5000	\$50,987		\$1,000 (NHREC)	
9. Materials and Supplies---6000	\$3,500			
10. Equipment---8000				
11. Facilities---8000			\$12,729 (NHREC)	
B. Indirect Costs				
Total	\$100,000			

*If recovering indirect costs, the rate must not exceed the federally approved indirect cost rate of the fiscal agent.