Virginia Space Grant Consortium
Presentation to Mid-Atlantic Regional Space Grant Meeting
Through an online brokering system:

- CSIIP offers undergraduate students, majoring in a STEM related field, from all accredited schools across the Commonwealth one centralized place to apply for paid internships offering real-world work experience.

- Provides Virginia’s industries with unprecedented access to qualified interns pursuing STEM related careers.

- First internship placements in summer 2013

The system is free to use for all students, companies, and colleges/universities.
Commonwealth STEM Industry Internship Program

- A partnership between the Virginia Space Grant Consortium and Virginia’s 10 Regional Technology Councils; and is in collaboration with Industry, Virginia Universities, and Community Colleges.
- Has strong support from the Governor’s Office, the General Assembly, Virginia’s Center for Innovative Technology and the State Council of Higher Education for Virginia.
- Will be formally announced through a press release by the Governor’s office on September 27 in conjunction with its announcement by the Secretaries of Education and Technology at a Northern Virginia Technology Council meeting of about 500 member attendees.
• Regional Technology Councils are serving as the program’s conduit to industry members. They are marketing the program to their members.

• The Virginia Manufacturers’ Association is also collaborating to get the word out to its membership and through its Dream!t, Do !t network.

• Liaisons have been established at each accredited Virginia college, university and community college to publicize the program at their institutions.

• Thanks to Mark Fischer our software developer for the online system.
Student Eligibility Requirements

- At least 18 years of age and attending a Virginia university, college, or community college.
- A full-time undergraduate student, taking at least 12 credit hours per semester.
- Must have completed at least 30 or more post-secondary education credits and are at least at rising sophomore status prior to the internship. Seniors graduating at the end of spring semester 2013 are also eligible to participate.
- Majoring in a STEM (science, technology, engineering or mathematics) field.
- U.S. Citizen or Permanent Resident.
- Must have a GPA of at least 2.7 on a 4.0 scale.
The program will be limited only by the number of participating companies and the student placement pool.

Companies use the online application database to select and hire interns directly.

The online system features a sophisticated search and sort tool for company use.

Student application packages include a detailed application, resume, two reference letters and a fall 2012 transcript.

Students can designate regional or statewide geographic interest as well as interest in specific companies and internships.

The online system features a sophisticated search and sort tool for company use.
Regional Internship Opportunities

<table>
<thead>
<tr>
<th>Map ID</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Southwest Virginia</td>
</tr>
<tr>
<td>2</td>
<td>Roanoke/Blacksburg</td>
</tr>
<tr>
<td>3</td>
<td>Southern Piedmont</td>
</tr>
<tr>
<td>4</td>
<td>Shenandoah Valley</td>
</tr>
<tr>
<td>5</td>
<td>Region 2000</td>
</tr>
<tr>
<td>6</td>
<td>Greater Charlottesville</td>
</tr>
<tr>
<td>7</td>
<td>Greater Richmond</td>
</tr>
<tr>
<td>8</td>
<td>Northern Virginia</td>
</tr>
<tr>
<td>9</td>
<td>Greater Fredericksburg</td>
</tr>
<tr>
<td>10</td>
<td>Hampton Roads</td>
</tr>
</tbody>
</table>
Commonwealth STEM Industry Internship Program

- $300,000 per year in state funding was received for program management and administration for the 2012 – 2014 biennium.
- Students will be longitudinally tracked to their academic or employment step.
- Program has a strong evaluation component for program impact, reporting to policy makers and universities, and for continuous improvement.
Commonwealth STEM Industry Internship Program

- Site open for student applications no later than November 1.
- Student applications due January 31, 2013.
- Application database open to companies on February 11, 2013.

Website is: http://csiip.spacegrant.org/

Questions?
Virginia Aerospace Science and Technology Scholars

Explore where Science, Technology, Engineering, and Math can take you!

Promotes exploration of science, technology, engineering, and math (STEM) concepts using a Space Exploration theme

A statewide competitive program, free of cost, for high school juniors

Online course and Summer Academy
Virginia Aerospace Science and Technology Scholars

Explore where Science, Technology, Engineering, and Math can take you!

VASTS Program Statistics

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Participants</td>
<td>48</td>
<td>118</td>
<td>347</td>
<td>420</td>
<td>467</td>
</tr>
<tr>
<td>Males (%)</td>
<td>77</td>
<td>68</td>
<td>68</td>
<td>67</td>
<td>65</td>
</tr>
<tr>
<td>Females (%)</td>
<td>23</td>
<td>32</td>
<td>32</td>
<td>33</td>
<td>35</td>
</tr>
<tr>
<td>Underrepresented Minorities (%)</td>
<td>11</td>
<td>18</td>
<td>18</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Career and Technical Education-track (%)</td>
<td>30</td>
<td>30</td>
<td>32</td>
<td>36</td>
<td>32</td>
</tr>
<tr>
<td>Virginia Senate Districts Represented (%)</td>
<td>65</td>
<td>90</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Virginia House Districts Represented (%)</td>
<td>41</td>
<td>74</td>
<td>86</td>
<td>86</td>
<td>99</td>
</tr>
</tbody>
</table>

*Self reported; up to 5% typically indicate “other.”

Additional funding ($100K + $350K) from the Commonwealth of Virginia allows for FY2013 program expansion:

- 500+ students online
- 180 students at residential Summer Academy
Virginia Space Coast Scholars
Launchpad to Study the Earth, Atmosphere, and Beyond

Who can apply?

- High-school sophomores
- Virginia and U.S. citizens
- 2.7 GPA
- Demonstrated interest in STEM

To inspire those students with technical or scientific interest but need exposure or the opportunity to engage in an experience that ignites their interest and propels them forward into more rigorous STEM-related programs.

The Commonwealth of Virginia passed legislation to fund this program for FY 2013 and FY 2014.

Online Learning Experience

Dynamic

Residential Summer Academy

Scientific Exploration

Interactive

Flight Opportunities

Inquiry-based
On Campus Residential STEM Experience

- Three-day on-campus motivational residential programs for rising ninth and tenth graders.
- $218,000 per year award: Year one at UVa (summer 2013) and year two at Virginia Tech (summer 2014).
- Two programs each summer for 60 students each; total of 120 students each summer; no cost to students.
- Open application for qualified students with teacher recommendation.
- Seeking students with STEM aptitudes for whom this program might be the spark for STEM studies and career planning.
- Cross disciplinary across STEM departments.