Virginia Career VIEW, [www.vacareerview.org](http://www.vacareerview.org)
Explore..Educate..Engage!

Explore Careers and more with these hands on outreach programs throughout Virginia.

**Virginia Community Outreach:**

[Ask NICE](http://www.vacareerview.org) - NASA Innovations in Climate Education, Educator Professional Development in Virginia.

[Danville Science Center](http://www.vacareerview.org) Outreach Programs

[Frontier Culture Museum](http://www.vacareerview.org) in Staunton, VA Education Outreach Programs - offer 8 program options presented in your classroom to fit the needs of students of all ages.

[James Town Settlement & Yorktown Victory Center Outreach Program](http://www.vacareerview.org) - The Jamestown-Yorktown Foundation offers hands-on, inquiry-oriented outreach programs that bring history to life in your Virginia classroom. The programs, in which students explore reproduction artifacts from Jamestown Settlement and the Yorktown Victory Center, are designed for an average class size and last approximately one hour.

[Kids Tech University](http://www.vacareerview.org): Presented by Virginia Tech’s Bioinformatics Institute, this [program](http://www.vacareerview.org) peaks student interests in STEM subjects through four 1 day programs for students ages 9-12. [Online registration](http://www.vacareerview.org) begins October 20, 2014 at 6:00pm. Cost: $100 includes student lunch and all 4 sessions.

[The Library of Virginia](http://www.vacareerview.org) To Collect, Protect, and Serve Programs - Orient your students to primary sources and the history of Virginia’s oldest cultural institution. Using hands-on and detective-style activities that develop analytical thinking, students will learn how to identify a primary source and the stories it can reveal. Documents and themes support the Virginia Standards of Learning for grades 1 through 5.

[Maggie L. Walker House](http://www.vacareerview.org): Richmond, VA. Online resources for programs entitled: [Dinner Discussions at Maggie Walker’s House](http://www.vacareerview.org) for grades 4-8, can be adapted up to grade 12. Entire lesson plans linked to SOLs. Fabulous site!

[National Park Service presents: Teaching with Museum Collections Lesson Plans](http://www.vacareerview.org). Includes historic sites in Virginia and across the nation, these comprehensive lesson plans include virtual museum tours, movies, resources and more. From the Robert E. Lee Memorial to Gettysburg, and Hampton, these lesson plans link right up to SOLs.

[Nauticus](http://www.vacareerview.org) Science SOL-based Outreach Program in Norfolk - designed to teach your students about basic scientific concepts and their applications in the real world.

[RoboParade](http://www.vacareerview.org) at the Children’s Museum of Blacksburg-Open to students of any age. Technical workshops are offered before the parade.

For more information about careers, hands on games, experiments, and more go to [www.vacareerview.org](http://www.vacareerview.org) Virginia Career VIEW, Virginia Tech, Wallace Hall Room 404, 295 West Campus Drive, Blacksburg, VA 24061 [info@vaview.org](mailto:info@vaview.org) 1-800-542-5870
Shenandoah Valley Discovery Museum in Winchester, VA- Educational Outreach Programs cover a number of science and history topics and are brought to your location.

Sunrise GK-12 GMU Fellows Project- SUNRISE is a GK-12 project aimed at partnering STEM graduate student “Fellows” with school teachers to foster systemic efforts in implementing Information Technology (IT) rich STEM content-knowledge into grade 4-6 education.

Science Museum of Western Virginia K-5 In-School Outreach- offers a number of programs tailored by grade.

Virginia Cooperative Extension through Virginia Tech and Virginia State University, offer several 4-H youth development programs in various areas. Check here to see what is offered in your area.

Virginia Department of Education list of Governor’s STEM Academies.

Virginia Discovery Museum in Charlottesville, VA Outreach Programs- Traveling Trunks are programs for students grades PreK-5 that provide opportunities for children to discover different topics and learn new skills.

Virginia Junior Academy of Sciences- students in grades 7-12 submit scientific papers for a chance to have their work win recognition.

The Virginia Living Museum in Newport News, VA- travelling programs offer specially designed, SOL-correlated presentations in your school classroom or auditorium for students grades PreK-7.

Virginia Museum of Contemporary Art in Virginia Beach, VA Outreach Programs- The museum provides 10 action-packed courses for students in grades 1-5. These Outreach Programs focus on integrating the principles of contemporary visual art with Virginia Standards of Learning curriculum goals.

Virginia Museum of Fine Arts in Richmond, offers Youth Studio Art Classes and workshops that focus on interdisciplinary studies through arts and history in conjunction with the Virginia Standards of Learning.

Virginia Museum of Natural History Outreach Programming- Bring science, technology, engineering, math and natural history programs to you, presented by museum educators.

Virginia Science Festival: A large scale interactive event that combines Science, Technology, Engineering, Art, and Math with hands on experiences and demonstrations. October 4th, Blacksburg VA and October 11th, Roanoke, VA.

Virginia War Museum in Newport News- Educational programs cover U.S. military history from the American Revolution to the Gulf War.

Wildlife Center of Virginia Education and Outreach Programs- The Wildlife Center has a wide variety of educational opportunities for a range of audiences, including: viewing the Center’s online Critter Cam and moderated discussion, unique online opportunities for classrooms around the world, field trips and tours of the Center, and programs presented at locations throughout Virginia.

University Programs/Resources:

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Christopher Newport University, Newport News, VA

- **STEM Community Day**: All are welcome to this free event serving students of all ages at Christopher Newport University. The event includes engaging hands-on activities, student displays and competitions, and a chance to explore STEM educational opportunities and professions. Typically held in May, registration required.

College of William and Mary, Williamsburg, VA

- **The Tidewater Team**: STEM workshop for teachers and a summer science camp for fourth- and fifth-grade students.
- **Virginia Institute of Marine Science**: Reserve a space for a 1.5 guided walk of the Virginia Institute of Marine Science at William & Mary, including a visit to the VIMS Visitor Center and Aquarium, a research laboratory, and the VIMS Teach Marsh. Tours are geared towards adults and older children.
- **Physics Outreach**: Visit Saturday Morning Physics, open to the public, or contact a faculty member to be a guest speaker and present science demonstrations (K-12) to local schools. Check out Physics Fest every Fall held on Homecoming Weekend. Includes a physics play room, demo show, and liquid nitrogen ice cream.

George Mason University, Fairfax, VA

- **The Mason Game & Technology Academy**: offers week-long and weekend programs for students ages 9-18 in the Fall, Spring, and Summer at both GMU Fairfax and Prince William campuses. A Summer Program for students ages 6-8 is also offered at the Workhouse Arts Center in Lorton, VA.
- **Potomac Arts Academy**: Offers summer & year round classes in music, photography, art, acting, dance, film, and game design. Outreach activities involve instruction/demonstrations in music, dance, theatre, and visual arts in local schools and organizations.
- **Infamous Robotics Summer Camp**: Robotics week-long summer camp for children ages 7-14 located at George Mason University. Three levels are offered throughout June, July and August.
- **COMPLETE Center Elementary Outreach**: The Center for Outreach in Mathematics Professional Learning & Educational Technology (COMPLETE) at George Mason University works with school districts in Northern Virginia to promote best practices in teaching mathematics by improving teachers' mathematics content knowledge and pedagogical strategies. The project consists of a summer institute as well as follow-up sessions through the school year.
- **COMPLETE Center Middle School Outreach**: The Center for Outreach in Mathematics Professional Learning & Educational Technology (COMPLETE) at George Mason University works with schools in Northern Virginia to impact student learning in mathematics by enhancing teachers’ mathematics content and pedagogical knowledge through Fostering Algebraic Connections through Critical Thinking Skills (FACTS) in Rational Numbers and Proportional Reasoning (Grades 6-8). This program consists of a course designed to enhance middle school teacher content knowledge of rational numbers, ratios and proportional reasoning as well as follow-up sessions throughout the school year.

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• **VISTA Professional Development**: The Virginia Initiative for Science Teaching and Achievement offers several events for Professional Development geared towards Science Teachers.

James Madison University, Harrisonburg, VA

• **Wind for Schools** - a project sponsored by Wind Powering America to raise awareness in rural areas about the benefits of wind energy while increasing knowledge of wind energy in future leaders of our communities. Virginia schools can consider incorporating a wind turbine in their school and receive training on curricula to incorporate wind technology and its data into the classroom.
• The **KidWind Challenge** - a wind turbine design competition for middle and high school students.
• **The Center for Wind Energy** at JMU- offers teacher training workshops throughout the year, some of which are free of charge. Custom training is also offered to meet the needs of specific schools, districts or organizations.

Old Dominion University, Norfolk, VA

• **Great Computer Challenge** - A competitive opportunity for students in K-12 to demonstrate their knowledge of various computer applications and programming skills.
• **Pretlow Planetarium** - Offers twice-weekly shows open to the public.
• **Science Alliance Live**: Combine interactive theatre, hands on science activities, and online interaction with real scientists. Reserve dates for 2015 now. Families or school tours. (Grades 4-8)
• **The Kaplan Orchid Conservatory** - open Mon-Fri 10am-2pm

Radford University, Radford, VA

• **Science Days** - Radford University Science Alliance hosts school groups for day-long field trips of science activities. Students visit the Museum of Earth Sciences, the Radford University Planetarium, and the Radford University Greenhouse as well as exciting chemistry and physics magic shows.

Regent University

• **Martinson Center for Mathematics and Science** - Offers various workshops for teachers in K-5 science and mathematics.

University of Virginia, Charlottesville, VA

• **Engineering Teaching Kits** program - enables undergraduate students to design customized lesson plans, or teaching kits, for middle and high school students that cover a variety of engineering topics. The students take the plans to local schools, where they field-test the kits by leading the students through the engineering discovery exercises. Each kit includes an engineering design challenge.
• **UVA Programs and activities for kids**: From art activities to fitness and engineering pre college programs, this list has it all. For families and large school groups.

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Virginia Commonwealth University, Richmond, VA
- **VCU Rice Center** Courses/workshops- The Rice Center offers summer courses for students, as well as inexpensive EcoExperiences on Saturday mornings open to the public. 
- **Mary Frances Youth Center Lobs & Lessons**- a youth enrichment program that strengthens life skills, promotes academics and creates a path to higher education through the sport of tennis.

Virginia Military Institute, New Market, VA
- **Virginia Museum of the Civil War**- offers group tours, a teacher packet, and pre- and post-visit student worksheets.

Virginia Tech, Blacksburg, VA
- **Biological Sciences Outreach Program** (SOuP) offers Education resources in collaboration with **VT-STEM** including kits, hands on activities, and more related to the biological sciences for grades K-12.
- **Engineering Outreach**: includes demonstrations in local schools and resources through the **Center for the Enhancement of Engineering Diversity’s (CEED)**. Engineering outreach is available in 10 different departments.
- **Hokie Bugfest**: October 11, 2014 10:00am-5:00pm @ The Inn at Virginia Tech. Free.
- **Kids Tech University**: Presented by Virginia Tech’s Bioinformatics Institute, this program peaks student interests in STEM subjects through four 1 day programs for students ages 9-12. **Online registration** begins October 20, 2014 at 6:00pm. Cost: $100 includes student lunch and all 4 sessions.
- **Museum of Geosciences**- offers **Geoscience Teaching kits**, materials, and activities to educators geared for Lower Elementary up through High School.
- **Virginia Tech Upward Bound/ Talent Search**- offers tutoring in several subjects, SAT prep, and more. Must live within the target area. Other restrictions apply.
- **VT-STEM**: Virginia Initiative for Science Teaching and Achievement- offers a list of VT Programs focusing on STEM.
- **VT-Vet School Open House**: Held Annually in April, free, and no registration required, students and families get an up close view of the Virginia-Maryland Regional College of Veterinary Medicine, tour facilities, and talk with current students.

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