



COMMONWEALTH of VIRGINIA  
Department of Education

**DATE:** May 25, 2018  
**TO:** Division Superintendents  
**FROM:** Steven M. Constantino, Ed.D., Acting Superintendent of Public Instruction  
**SUBJECT:** **Announcing Summer Professional Development Institute for Technology and Engineering Educators**

The Virginia Department of Education, in collaboration with Arlington County Public Schools, is pleased to offer the [2018 VTEEA Summer Professional Development Institute](#) ➔ for technology and engineering educators. The Institute will be conducted in Alexandria, Virginia, on July 25-27, 2018.

Featured 2018 Institute workshops:

- Introductory Systems and Control - Workshop with Dr. Ron Todd, Chief Executive Officer at DWL Associates, New Jersey, simple and exciting ways to introduce the topics for middle school students.
- Integrative STEM Practice in Action - Future Space Colony Project - This interactive discussion will provide an example of a successful STEM integration project taking place in an Inventions and Innovations course at Mary Ellen Henderson Middle School in Falls Church.
- Advanced 3D Printing - Learn new trends and techniques in 3D printing. New technologies allow for printing with PLAs with integrated woods or metals into the material.
- Project Based Learning Using Mastercam - Focus on how to use Mastercam for student projects, using one output software tool to Milling Machines, 3D Printers, and Laser Engravers. Those with older versions will be introduced to the new easy to use interface and learn how to bring student graphics into Mastercam using Raster to Vector.
- [K-5 Strategies for Implementing Children's Engineering](#) (PDF) ➔ - A five-day workshop that can be taken for graduate credit. Learn to use design, engineering, and technology instructional resources to enhance children's attainment of the Virginia Standards of Learning in science, mathematics, history and social sciences, and language arts. Sponsored by the Virginia Children's Engineering Council and James Madison University.

Instructional resource materials will be provided for each of these workshops. Additional workshops for microcontrollers, robotics, coding, and other related topics will be available. Details for industry tours are forthcoming.

The Institute [registration](#) ➔ is open and teachers are encouraged to preregister early, as workshop space is limited. Participants are responsible for travel-related expenses and lodging, if needed. This is an allowable expenditure of federal Perkins funds as long as it is included in the approved local plan. Participants should bring a laptop for use at workshops.

If you have any questions, please contact George Bishop, VTEEA President, at [bishopgd@pwcs.edu](mailto:bishopgd@pwcs.edu) ✉ or by telephone at (540) 907-6119; or Dr. Lynn Basham, Specialist for Technology Education and Related Clusters, Office of Career, Technical, and Adult Education, at [cte@doe.virginia.gov](mailto:cte@doe.virginia.gov) ✉ or by telephone at (804) 225-3119.

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