



*Academy for Engineering & Technology
New College Institute & Virginia State University*

Through a partnership with Virginia State University (VSU), the New College Institute (NCI) is proud to offer the Academy for Engineering and Technology (AET) to regional high school juniors and seniors. The AET program is located in NCI's uptown Martinsville, VA campus and the Institute for Advanced Learning and Research (IALR) in Danville, VA including partnership with Danville Community College (DCC). Students enrolled within the AET program will have the opportunity to earn credits that may transfer to ABET accredited degree programs at colleges and universities upon successful completion of the program.

Curriculum

The AET curriculum focuses on theory and design and the ability to write technically, present, and communicate effectively within the workplace. Engineering design provides the creation of new facilities, machinery, goods, materials, and life needs. Engineers are team leaders that plan, design and supervise engineering projects from concept to completion. Engineers solve problems by relying on their creative and academic skills. As such, engineering students should enjoy problem solving and be challenged by the effort it requires. AET Students will take advantage of projects, lectures, and assignments that focus on analysis, engineering fundamentals, and project management. Additionally, students will work with faculty and industry to promote their ability to innovate and design components and processes.

Experiential Learning

AET students will participate in many experiential learning activities throughout the curriculum to apply their academic knowledge to on-the-job situations. These include interactions (guest lectures) with individuals in career fields of engineering, technology and advanced manufacturing; exposures to high tech industry through onsite tours. Rising juniors enrolled in AET are eligible to participate in the Industry Fundamentals program and rising seniors enrolled in AET are eligible to apply for an opportunity to be selected for a paid internship, subject to employer availability.

Partnering Institutions



Danville Community College



FOR ADVANCED LEARNING AND RESEARCH

AET Benefits:

- The opportunity to earn college credits in engineering and technology that may transfer to other ABET accredited universities saving thousands of dollars in tuition.
- Gain valuable knowledge and experience in careers for which employers are hiring.
- Opportunities for a paid internship within the fields of engineering and technology.

Experiential Learning Benefits:

- Explore various engineering and technology career paths.
- Experience state-of-the-art engineering and technology within advanced manufacturing.
- Connect with a world-class industry for potential long-term employment.
- Gain marketable work skills for college and/or employment upon high school graduation.



For more information about the AET program, please contact:

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