



HANDS-ON Learning

Access to hands-on learning opportunities begin as soon as you enroll. Learn real-world electrical and computer engineering applications in labs and through research that teach:

- Big data processing, transmission and storage
- Embedded computer systems
- Cyber security, electronic materials and devices
- Communications and signal and image processing
- Electric power distribution
- Smart grids and sustainable energy generation




VCU College of
Engineering


ELECTRICAL & COMPUTER Engineering




In the heart of RICHMOND

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ELECTRICAL & COMPUTER Engineering

Electrical and computer engineers facilitate much of our modern world. They craft devices and systems for computing, communication, health care, power, transportation and much more. As a VCU College of Engineering student, you will **design, develop and implement electrical hardware and software** that benefits communities around the world.

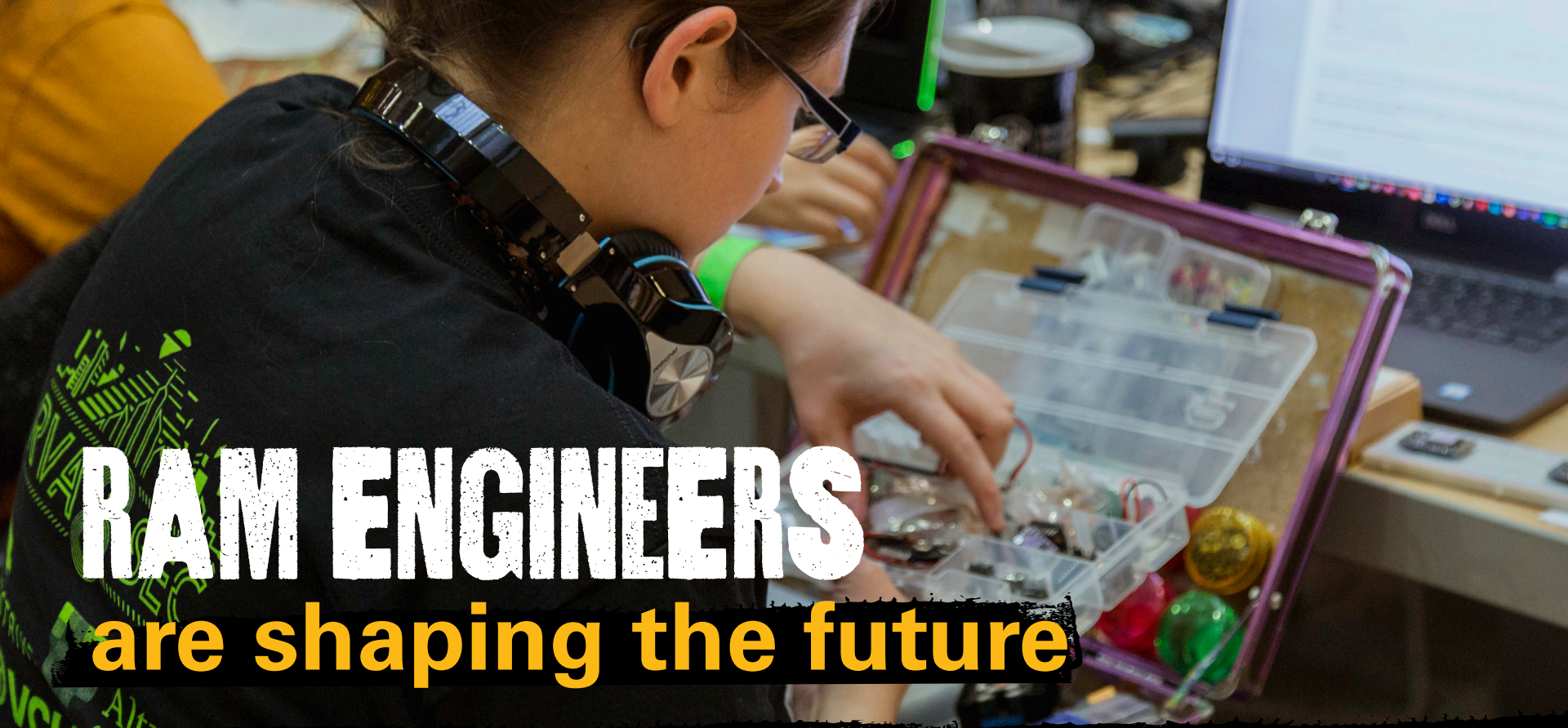
Learn real-world electrical and computer engineering applications like:

Circuits **Electromagnetics** **Micro- and nano-electronics**

Sustainable power systems **Smart technologies**

Cyber-physical systems, cybersecurity, machine learning





RAM ENGINEERS

are shaping the future

B.S. in Electrical Engineering

The Bachelor of Science in Electrical Engineering allows you to develop expertise in key areas like: electric circuits, electromagnetic fields and waves and communications systems.

B.S. in Computer Engineering

The Bachelor of Science in Computer Engineering allows you to develop expertise in key areas like: electric circuits, microcomputer systems and advanced digital systems design

Develop skills in college you can use to solve real-world engineering challenges. Access to learning spaces equipped with industry-strength tools allow you to apply the theoretical knowledge from lectures in practical, real-world lab environments.

- Xilinx Vivado
- National Instruments
- Labview
- Rockwell Automation
- Factory Talk
- Studio5000
- Matlab Simulink
- COMSOL Multiphysics

POWERING VIRGINIA'S ENERGY FUTURE

VCU Engineering has launched a **new Power Systems Engineering track in partnership with Dominion Energy**, preparing students to meet the growing demand for clean, reliable power in an AI-driven world.



Your first job won't be your first job

Your journey at the College of Engineering moves you toward an engineering career. With internships, co-op experiences, lab opportunities and more, you'll have many opportunities to work with employers before graduation, developing an understanding for the kind of work you enjoy and building a network of relationships for the foundation of your career.

These opportunities include:

Cooperative Education

Work a full-time engineering job while maintaining student status. Get paid, learn valuable industry knowledge and grow your professional network.

Internships

Apply what you learn in the classroom in a professional setting to gain valuable practical experience.

Student Organizations

Find like-minded students with a passion for electrical and computer engineering.

Vertically Integrated Projects (VIP)

Get school credit while leading and contributing to large-scale, multi-year research.



Looking to the future

Electrical and computer engineering students find success in a variety of industries. Our graduates have found success in companies like:

- Northrop Grumman
- CarMax
- Lockheed Martin
- Dominion Energy
- M.C. Dean
- The Boeing Company