Fast Facts

#1 Richmond, Va. ranked happiest city.*

94% of graduates employed six months after graduation

14:1 undergraduate student to faculty ratio

310 undergraduate students

23 faculty

30% of undergraduates offered merit-based scholarships

$70K average starting salary for undergraduates

254 273 294 310
2014 2015 2016 2017

ENROLLMENT

The VCU College of Engineering is nationally recognized for attracting talented, diverse graduate students and preparing them for valuable opportunities in STEM fields. Here, you’ll find state-of-the-art facilities, faculty members with international reputations, and a collaborative, entrepreneurial culture. The result? Outstanding opportunities for emerging scholars and superior preparation for the next generation of research, industry and higher education leaders. This is how we make it real. Visit egv.vcu.edu for more information.

Entrepreneurial. Creative. Forward-thinking. As Virginia’s thriving, multifaceted capital, Richmond is a magnet for Fortune 500 companies and high-energy startups. Our outstanding campus gives us metropolitan sophistication with a small-town atmosphere. Check out our colorful mix of historic and contemporary neighborhoods lined with galleries and boutique shops. Walk or bike through our green spaces, parks and along our top-ranked James River trails. Sample our top-notch restaurants and breweries and discover why U.S. News and World Report named us one of the country’s best under-the-radar foodie cities. For work and play, Richmond has it all. All we need is you. Learn more at visitrichmondva.com.

QUESTIONS? CONTACT: Michael Cabral, Ph.D. Associate Professor 804-828-9068 mcabral@vcu.edu

APPLY TODAY: vcu.edu/admissions/apply/
Application Deadline: January 15
For Scholarship Consideration: November 15

Electrical & Computer Engineering

In the medical devices laboratory, researchers apply electromagnetic principles to the design and development of diagnostic and therapeutic tools, primarily for cancer and diabetes research. Electromedical/therapeutic devices make up about 33 percent of the $110 billion medical devices market.

In this team, participants study firsthand the vast potential of light-based technologies, working to develop numerous groundbreaking devices that may lead to commercial products. Optics and photonics technologies are a rapidly growing research and industry sector. Many leaders in the photonics community believe that light-based technologies will be fundamental to 21st century society.

Unmanned Aerial Vehicles (UAV)
The VCU UAV lab is conducting cutting-edge research on flight control systems. VIP teams design, implement and test complex digital hardware and software for autopilots of small UAVs. UAVs are currently the most dynamic growth sector of the international aerospace industry.

Medical Devices
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Optics and Photonics
In this team, participants study firsthand the vast potential of light-based technologies, working to develop numerous groundbreaking devices that may lead to commercial products. Optics and photonics technologies are a rapidly growing research and industry sector. Many leaders in the photonics community believe that light-based technologies will be fundamental to 21st century society.

Cyber-Physical Systems
Cyber-physical systems (CPS) are typically composed of networked hardware and software components tightly integrated with physical elements. VCU’s Cyber-Physical Systems lab conducts cutting-edge research for designing next generation autonomous systems, including smart buildings, smart homes, smart factories and smart cities.

**Areas of Study**

- Micro-/Nano-electronics & Photonics
- Power Electronics
- Power, Energy & Controls
- Signal Processing & Communications
- Photovoltaics
- Light-Emitting Devices
- Nanophotonics
- Cloud & Multicore
- Computer Architecture & Cyber-Physical Systems
- Autonomous Systems
- Big Data
- 5G Wireless
- Industrial Automation
- Medical Devices
- Industrial Automation
- Smart Grid
- Autonomous Systems
- Medical Devices

**Undergraduate Research**

The Vertically Integrated Projects (VIP) program provides undergraduate students the opportunity to participate in multidisciplinary, team-based projects. Students can earn credits for working on specific research projects with other undergraduates, graduate students and faculty. This valuable team-based learning experience expands students’ job opportunities by enhancing their resumes.

**Research Opportunities**

- Vertically Integrated Projects (VIP)
- Dean’s Undergraduate Research Initiative (DURI)

**Effective Experiential Learning**

- Capstone Design experience and expo
- Hands-on laboratories in 80 percent of all classes
- Small class sizes

**Integrated Industry-University Partnerships**

- Diverse internship and Co-Op opportunities at partner companies including Aflia, BMW, Boeing, Dominion Power, Intel, Micron, Northrop Grumman, NVIDIA, Rockwell and Yahoo
- Industry-funded projects

**Engineering Scholarship Opportunities**

- Wright Engineering Access Scholarship
- Dean’s Scholarship
- Chair’s Scholarship

**1-Year Master’s Program**

Highly qualified students are eligible for our bachelor-to-master’s program to earn both degrees in five years.

**QUESTIONS? CONTACT:**
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