In the Computer Science Department, we educate our students beyond the bounds of traditional study. Our collaborative environment allows students to explore the important research challenges that lie at the intersection of computer science and other disciplines.
Our Students

At the U.Va. Department of Computer Science, our undergraduate and graduate students benefit from an integrated curriculum that allows them to immerse themselves in laboratories, team projects and hands-on research experiences.

Our undergraduate curriculum offers an interlocking sequence of courses and teaching laboratories designed to simulate real-world experiences and has been adopted by many departments across the country. Through this program, our undergraduates become involved in research early, with their four-year experience culminating in an applied thesis project. Thirty percent of our undergraduate students enroll in graduate programs; others take important and challenging positions in industry.

Our graduate students participate in world-class research projects alongside our renowned, published faculty and are aggressively sought by research universities and by industry. Through our graduate curriculum, we are meeting the needs of today’s students with reduced course loads, more seminars, smaller classes, a strong focus on building complex systems and more immediate student involvement in research. In addition, our research budget per Ph.D. student — which, according to U.S. News & World Report, far surpasses that of other leading schools — creates unique opportunities for our students.

Grants and Awards

The Computer Science Department attracts federal research support in excess of $6 million annually, with total external research funding of more than $7 million each year. In recent years, the department has brought in $11 million in sponsored research, $440,000 per faculty member who received funding.
Our Research

Collaboration
In addition to excelling in traditional research areas within computer science, we believe that many important research challenges lie at the boundary of computer science and other disciplines.

With exceptional strength in experimental systems and applied research, our researchers are blazing new trails in the following areas:

- secure and dependable software systems
- wireless sensor networks
- high-performance computing
- programming languages
- medical record security
- temperature-aware electronics
- embedded computing
- fault analysis
- computational biology
- software engineering
- software assurance
- graphics and grid computing

Our research is positively impacting the speed and capability of our computer processors, making our networks and personal data more secure, enabling seniors to live independently through “smart home” technology, creating human–computer interfaces with surgical applications and more. Ongoing collaborations with the School of Medicine and the Institute for the Advanced Technology in the Humanities further expand research possibilities.
Computer and information science has risen to the forefront at the University of Virginia, where the field has been designated as one of the three research focus areas in which the University must excel to maintain its leadership position among public educators.

The U.Va. Department of Computer Science, a nationally recognized leader in computer science research and education, offers quality programming that emphasizes technical mastery, interdisciplinary research and what University founder Thomas Jefferson called the “useful sciences” or a firm grasp of scientific principles as well as strong communication skills and creative problem-solving.

We offer a Bachelor of Science in computer science, a Bachelor of Science in computer engineering (shared with U.Va.'s Charles L. Brown Department of Electrical and Computer Engineering), a Bachelor of Arts in computer science (shared with U.Va.'s College of Arts & Sciences), a Master of Computer Science, a Master of Science degree and a Ph.D. in computer science. In addition, the department offers a computer science minor for undergraduates.

Snapshot

At the U.Va. Department of Computer Science …

- 300 undergraduate students are majoring in computer science or computer engineering
- 30 percent of our undergraduate students go on to graduate school
- 30 graduate students are earning Master of Computer Science, Master of Science or Ph.D. degrees
- 25 faculty members teach, yielding an undergraduate student:faculty ratio of 12:1
- 25 percent of our full professors and 50 percent of our chaired professors are women
- We receive up to $11 million in research support each year, or $440,000 per faculty member who receives funding
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