



Impact

Computer science is central to the creative and empowering impact of technology in every sphere of life. The incredible opportunity to identify problems and create solutions motivates our teaching and research on a daily basis.

Recent progress:

Number of B.S. degrees awarded:

From **126** to **178**
2007 2015

Average number of Ph.D.s awarded annually:

From **16** to **25**
2007 2015



Diversity

We are committed to creating an inclusive community that draws on the energy and perspective of the entire world. In order to solve the widest range of problems and make life better for the widest range of people, we need the widest range of talent.

Recent progress:

Percentage of women among undergraduate CS majors:

From **4.2** to **16.1**
2007 2015

Number of women on the teaching faculty:

From **4** to **10**
2007 2015



Opportunity

A computer science degree opens up an exciting array of career paths: from the entrepreneurial challenge of a two-person startup, to the critical mission of a government agency, to the global impact of a consumer technology giant.

Recent progress:

Number of companies in the department's corporate partnership program:

From **16** to **81**
2007 2015

Research expenditures in millions:

From **\$5.9** to **\$15**
2007 2015

Research Centers

Center for Human Computer Interaction

Addressing the facilitation and understanding of human interaction with and through technology, extending into the everyday life of individuals, groups, and societies.

Discovery Analytics Center

Tackling knowledge discovery problems in areas of national interest, such as intelligence analysis, sustainability, intelligent infrastructure, neuroscience, and systems biology.

STACK@CS

Designing systems to address the most challenging computational problems by combining expertise from the full stack of computing research specialties, including architecture, software systems, security, and applications.

Synergistic Environments for Experimental Computing

Democratizing parallel and distributed computing via the co-design of hardware, software, and algorithms to accelerate discovery and innovation.



Department of Computer Science



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Computer Science at Virginia Tech





Letter From The Chair

A Virginia Tech education is grounded in purpose-driven learning, with a unique focus on preparing "VT-shaped" students. T-shaped graduates have deep knowledge and skills in a particular discipline, combined with cross-cutting interdisciplinary capacities, such as creative problem-solving, working in diverse teams, and conducting oneself ethically. The V in "VT-shaped" represents context, motivation, and engagement, which complements the more formal elements of education and flows from the land-grant mission and *Ut Prosim* "That I May Serve" motto of the university.

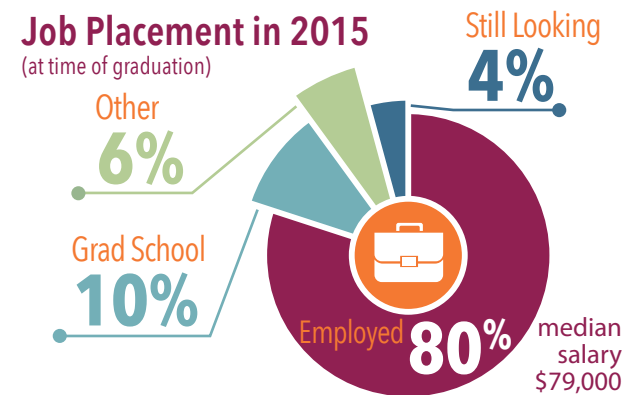
The Department of Computer Science is part of the College of Engineering at Virginia Tech, which is committed to supporting the highest level of student achievement. In the most recent U.S. News & World Report rankings, the college ranks 15th nationally among all engineering schools offering doctorates. Founded in 1970, the department has a long-standing record of excellence, with an energetic and award-winning faculty of 39 tenure-track faculty members, three professors of practice, two instructors, and three academic advisors. Centralized on the main campus of Virginia Tech in Blacksburg, the department offers bachelor's, master's, and doctoral degrees, as well as an accelerated bachelor's/master's degree. In addition, the Virginia Tech graduate center in the National Capital Region is home to several faculty members and a growing cohort of graduate students.

Please explore cs.vt.edu for more information and recent news!

Sincerely,

Cal Ribbens
Department Head

By The Numbers



Student Support in 2015

\$340k

140 undergraduate students received \$340,000 in department/college support, including scholarships, assistantships, etc.

\$4.2M

160 graduate students received \$4.2 million in department/college support, including scholarships, assistantships, etc.



Research Areas



Human Computer Interaction

Studies intersection between social/behavioral sciences and information technology; creates and evaluates new ways to integrate computing technology with human life.

Software Engineering

Studies the practices and components (e.g., programming languages, compilers, and tools) that enable the design, creation, and use of software.

Systems and Cybersecurity

Designs, develops, and evaluates the layers of software that make modern computing systems efficient, usable, and secure.

Computational Biology and Bioinformatics

Applies fundamental algorithms and computational methods to biology, biochemistry, and biophysics in service to health care, food production, and epidemiology.

HPC and Computational Science

Designs and applies high performance computing (HPC) to simulate complex natural and man-made systems.

Data Analytics and Machine Learning

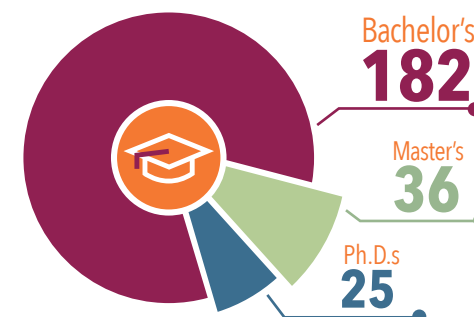
Designs algorithms and creates systems to manage, model, and analyze large data sets in order to extract usable information and insight.

Digital Education

Develops pedagogy and tools for CS education, applies computational thinking in other disciplines, and studies effective use of technology for K-12.



Degrees Awarded in 2015



Gender Ratio in 2015

