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.

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 Ph.D. degree recipients: 126 to 178
- Average number of Ph.D. degree recipients annually: 16 to 25

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: 4.2 to 16.1
- Number of women on the teaching faculty: 4 to 10

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: 16 to 81
- Research expenditures in millions: $5.9 to $151
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 capabilities, 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

<table>
<thead>
<tr>
<th>Research Areas</th>
<th>Degrees Awarded in 2015</th>
<th>Gender Ratio in 2015</th>
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</thead>
<tbody>
<tr>
<td>Computational Biology and Bioinformatics</td>
<td>Bachelor’s: 182, Master’s: 36, PhD: 25</td>
<td>Women: 14%, Men: 86%</td>
</tr>
<tr>
<td>Data Analytics and Machine Learning</td>
<td>Bachelor’s: 182, Master’s: 36, PhD: 25</td>
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<tr>
<td>Digital Education</td>
<td>Bachelor’s: 182, Master’s: 36, PhD: 25</td>
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<td>HPC and Computational Science</td>
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<td>Human Computer Interaction</td>
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<td>Software Engineering</td>
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<td>Systems and Cybersecurity</td>
<td>Bachelor’s: 182, Master’s: 36, PhD: 25</td>
<td>Women: 14%, Men: 86%</td>
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By The Numbers

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<tr>
<th>Job Placement in 2015 (at time of graduation)</th>
<th>Student Support in 2015</th>
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<tbody>
<tr>
<td>Employed: 80%</td>
<td>$340k</td>
</tr>
<tr>
<td>Still Looking: 4%</td>
<td>$4.2M</td>
</tr>
</tbody>
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