

COMPUTER SCIENCE

Established in 1967, we are located on NC State's award-winning Centennial Campus.

POINTS OF INTEREST

ACADEMICS

Undergraduate degree programs

- Bachelor of Science in Computer Science*
- Game Development Concentration
- Undergraduate Minor, Computer Programming
- Certificate in Computer Programming

Graduate degree programs

- Ph.D.
- Master of Science (Thesis and non-thesis options)
- Master of Computer Science (Professional degree, non-thesis, with on-campus or Distant Education options)
- Master of Computer Science - Tracks in Data Science and Software Engineering
- Master of Networking (Thesis and non-thesis options) with available concentration in Service Sciences, Management and Engineering (SSME)

KEY STATISTICS

- Established in 1967 - one of the first official Computer Science Departments
- Approximately 46 faculty, 6 emeritus faculty, 8 lecturers and adjuncts, and 37 research, IT and administrative staff
- Rankings:
 - 7th among Online Master's Degree programs (Best Buy Online Degree) ¹
 - 11th in Computer Science M.S. enrollment ²
 - 5th in Computer Science Ph.D. enrollment ²
 - 14th in Computer Science undergraduate enrollment ²
 - 14th in Computer Science BS degrees awarded ²
 - 10th in Computer Science research expenditures ²
 - 7th in Computer Science MS degrees awarded ²
 - 13th in Computer Science PhD degrees awarded ²
 - 7th in Best Online Graduate Computer Information Technology programs ³
 - 1st in Tenure-track female faculty among all CSC depts. in Colleges of Engineering ²
 - 5th on Go Grad's 2015-2016 List of Best Master's Programs in Computer Science

- Engineering Online Ranked Nation's Best Online Graduate Engineering Program for Veterans and Active-duty Military Personnel (2013) ³
- Enrollment 2015-16 Academic Year
 - Undergraduate 886
 - Master's 490
 - Doctoral 212
- Incoming Freshmen Fall 2015
 - Average GPA: 4.58 (weighted scale)
 - Most admissions between 4.29-4.81
 - Average SAT: 1349 (reading and math only)
 - Most admissions between 1213-1401
- Facilities
 - Engineering Building II (EB2), state-of-the-art teaching and research facility, opened in fall 2006
 - 12 research centers and more than 35 teaching and research laboratories and groups
 - Leading-edge networking and computational infrastructure
 - Corporate and Career Services Suite
- Designated by NSA and DHS as a National Center of Excellence in Information Assurance Research (CAE-R)
- Academic Alliance Member of National Center for Women and Information Technology
- 1st U.S. university to be awarded a Cisco TelePresence unit
- 1st U.S. research university to offer multi-disciplinary masterslevel curricula in services (SSME)
- Recognized as a Laureate in Computerworld Honors Program in 2007 and 2009
- Video Game Design and Development program recognized by *The Princeton Review* as one of the top 25

OPPORTUNITIES

- Research with faculty - research centers and groups, undergraduate opportunities, scholars and honors programs
- Applied learning - award-winning capstone Senior Design Center projects

- The department has a variety of student organizations providing leadership skills, service, networking, and informal learning opportunities, including:
 - ACM/AITP
 - Graduate Student Association
 - Honors Program/Honor Societies
 - Linux Users Group
 - STARS Student Leadership Corps
 - Women in Computer Science (WiCS)
- National competitions and recognition: student honors include 1st place in CSIDC World Finals, ACM Grand Award, Google Anita Borg Scholarship, IBM's Extreme Blue Internships, USA Today, Academic All American.
- CSC-specific scholarships: 25 endowed and numerous sponsored and external
- CSC students are also eligible for College of Engineering and University-wide scholarships. Details available at www.csc.ncsu.edu/academics/undergrad/scholarships.
- More than 90 companies actively partner with the department via sponsored programs, research, scholarships, projects and initiatives.

AREAS OF EXPERTISE

- Theory and algorithms
- Bioinformatics and computational sciences
- High-performance & power aware systems
- Artificial intelligence
- Networks
- Security
- Software engineering
- Computer-based education
- Graphics and visualization

The faculty foster strong multidisciplinary and collaborative interaction with other disciplines at NC State (e.g., Bio-informatics, eCommerce, serious games, etc.), other universities, industry, government agencies and laboratories, and other partners in the Research Triangle Park (RTP) and beyond.

CAREERS

- Average starting salaries, May 2015⁴
 - BS CSC - \$70,305
 - MS CSC - \$102,546

- Proximity to world-famous Research Triangle Park (RTP) provides many opportunities for internships and co-ops. Approximately 25% of all NC State Engineering co-ops are from the department of Computer Science.
- NC State is a top supplier of new graduate talent to Cisco, IBM, SAS, NetApp, Fidelity Investments, Amazon, and many others.
- Computer Science related careers listed among US News & World Reports "Best STEM Jobs of 2016"⁵:
 - #1 - Computer Systems Analyst
 - #2 - Software Developer
 - #4 - Web Developer
 - #9 - Information Security Analyst

FACULTY HONORS

- 24 National Science Foundation CAREER Award recipients and one NSF Young Investigator Award recipient
- National Academy of Engineering member
- Emmy Award recipient, National Academy of Television Arts & Sciences - for plasma screen technology
- Consumer Electronics Hall of Fame Inductee
- National Inventor's Hall of Fame Inductee
- DOE Early Career PI Award recipient
- American Association for Artificial Intelligence Fellow and Senior Member
- American Mathematical Society Fellow
- 7 Institute of Electrical and Electronics Engineers (IEEE) Fellows
- IEEE Dist. Service Award recipient
- 2 IEEE Golden Core members
- IEEE Computer Society Dist. Scientist, Dist. Visitor, and 2 Dist. Lecturers
- ACM SIGSOFT Inaugural Influential Educator Award recipient
- 2 ACM Distinguished Scientists
- Computing Research Assoc. (CRA) Digital Government Fellow
- American Academy of Forensic Sciences (AAFS) associate member
- NCDS Data Science Faculty Fellow
- 2 Senior Research Ethics Fellows
- Alcoa Foundation Engineering Research Achievement Award recipient

- Center for Democracy & Technology Fellow
- IBM Smarter Planet Innovation Faculty Award winner
- Gordon and Betty Moore Foundation Moore Investigator Award winner
- 2 NC State University Faculty Scholars
- 2 recipients of the NC State Alumni Association Outstanding Research Award
- 11 members in the NC State Academy of Outstanding Teachers
- NC State Academy of Outstanding Faculty Engaged in Extension member

SELECT DISTINGUISHED ALUMNI

- **Thushan Amarasiwardena** - Founder, LaunchPad Games and creator of award-winning Toontastic App
- **Marshall Brain** - Author, TV Star & Founder of HowStuffWorks.com; NCState Distinguished Engineering Alumnus
- **Keith Collins** - CTO, SAS Institute; NC State Distinguished Engineering Alumnus
- **Suzanne Gordon** - CIO (retired), SAS Institute; NC State Board of Trustees
- **Dr. Larry Hodges** - hf Flagship Director of the School of Computing at Clemson University
- **Bobby Johnson** - Former CEO and Co-founder of Foundry Networks; NC State Distinguished Engineering Alumnus
- **Richard Krueger** - developed xRes (now Macromedia's Fireworks), President & CEO of Skinux
- **Dr. Elizabeth Mynatt** - Executive Director, Georgia Tech Institute for People and Technology
- **Rudy Puryear** - ranked as one of world's Top 25 Consultants by Consulting Magazine
- **Erik Troan** - Co-author of Red Hat Package Mgr and "Linux Application Development," Senior Consultant with Plaza Bridge Group

Our 7,200+ alumni are located in all 50 US states and in 24 countries

^{*} Accredited by CAC/ABET
¹ www.geteducated.com/rankings/best_computer.asp
² ASEE data, 2013-2014
³ U.S. News and World Report, 2014
⁴ NC State University Career Center
⁵ money.usnews.com/careers/best-jobs/rankings/best-stem-jobs

(Published: March 2016)