STRATEGICALLY LOCATED adjacent to the Telecom Corridor, home to more than 600 high-tech companies, the Erik Jonsson School of Engineering & Computer Science is in the midst of a growth phase that includes construction of the $85 million Natural Science and Engineering Research Laboratory building, the hiring of dozens of new faculty, and the expansion of programs in cybersecurity, information assurance, biomedical engineering and control systems.

CORE AREAS OF COMPUTER SCIENCE RESEARCH
Research activities in the computer science department include a wide spectrum of investigations funded by government and industry. Organized around several institutes, a number of centers and dozens of laboratories, our research includes work in the following areas:

- Algorithms
- Artificial intelligence
- Automata and formal languages
- Computational complexity
- Bioinformatics
- Combinatorial optimization
- Computational geometry
- Computer-aided design
- Computer architecture
- Computer vision
- Computer networks & telecommunications
- Cybersecurity
- Databases
- Data mining
- Digital signal processing & communication
- Distributed systems & algorithms
- Embedded Software
- Graph algorithms/layout/drawing
- Graphics
- Human language technology
- Information retrieval
- Intelligent Systems
- Logic
- Multimedia systems
- Networking
- Parallel computing
- Pattern recognition/image processing
- Programming languages & systems
- Software engineering & verification
- Algorithms
- Artificial intelligence
- Automata and formal languages
- Computational complexity
- Bioinformatics
- Combinatorial optimization
- Computational geometry
- Computer-aided design
- Computer architecture
- Computer vision
- Computer networks & telecommunications
- Cybersecurity
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- Information retrieval
- Intelligent Systems
- Logic
- Multimedia systems
- Networking
- Parallel computing
- Pattern recognition/image processing
- Programming languages & systems
- Software engineering & verification

Full-time Computer Science Faculty
55

Computer Science Research Expenditures (2010)
$8.1 million

Jonsson School Research Expenditures (2010)
$35 million

Computer Science Enrollment (2011)
Bachelor of Science 754
Master of Science 594
PhD 129

Computer Science Degrees Granted (2010)
Bachelor of Science 159
Master of Science 210
PhD 27

PhD Tracks
- Traditional Computer Science
- Information Assurance
- Intelligent Systems
- Networks & Telecommunications
- Software Engineering Major
- Systems
MEET RECENT PhD RECIPIENTS

Anastasia Kurdia
Ajay Kulkarni
Yajing Zhao

FINANCIAL ASSISTANCE
Graduate assistantships feature a full tuition waiver and a stipend starting at $1,950/month. Other opportunities include Jonsson School Distinguished Graduate Research Fellowships, Department of Education GAANN Fellowships, NSF Graduate GK-12 Fellowships, the Computer Security and Information Assurance Scholarship for Service Program, teaching assistantships and research assistantships.

ADDITIONAL FACTS
• Over 600 high-tech firms are located within a five-mile radius of UTD, providing many opportunities for internships and employment. We have one of the largest internship programs of its kind, placing more than 500 students a year, on average.
• We are one of the top five producers of computer science degrees in the U.S.
• The Computer Science Department’s graduate program in computer science ranks 29th in the U.S. based on our faculty’s publication rate, and our graduate program in software engineering ranks 24th worldwide using the same measure, according to a report in the Communications of the ACM.
• Our faculty and students publish more than 250 research papers annually, and our faculty members include multiple NSF Career Award and Air Force Young Investigator Award winners.
• We are one of only a few departments in the U.S. offering BS, MS and PhD degrees in software engineering.
• Our faculty maintain strong collaborations with industry and with other university researchers worldwide.
• The Jonsson School has more than doubled its research funding since 2004 and plans to double it again in coming years.
• The Jonsson School has significantly increased the size of its faculty in recent years, hiring top recent graduates of Stanford University, Cornell University, Purdue University, Georgia Tech and UCLA as well as seasoned professionals from Rutgers University, USC, UC Davis, Freescale Semiconductor and elsewhere.

CONTACT
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Explore our computer science faculty research summaries at: explorer.utdallas.edu