The Department

Computer science has risen to the forefront of global technology advancement. At Texas Tech, students are educated to be the engineers, scientists, and leaders of the future. Going beyond a traditional curriculum to explore practical applications, students experience cutting-edge research and learn how computer science is an source of innovation in other disciplines.

Research

Led by faculty members who are leaders in their fields of study, graduate and undergraduate students are exposed to the latest advances and perform research in the following areas:

- Artificial Intelligence
- Data-intensive and Cloud Computing
- Parallel and distributed computing
- Reliability and Performance Modeling
- Wireless and Computer Networks
- Embedded and Mobile systems
- Data Science and Analytics
- Cyber Security and Cyber-physical Systems
- Software Engineering
- Software Security and Quality Assurance
- Declarative and Constraint Programming
- Knowledge Representation and Retrieval
- Logical Inference and Machine Learning

Areas of Study

- Bachelor of Science in Computer Science
- Graduate Certificate in Software Engineering
- Master of Science in Computer Science
- Master of Science in Software Engineering (Available Online)
- Doctor of Philosophy in Computer Science

By the Numbers

Enrollments (Fall 2014):

- Undergraduate: 93
- Estimated Qualifying Foundational Students: 94
- Master’s: 96
- Doctoral: 34

Faculty Members: 13

2015 U.S. News and World Report Ranking

- Best Online Graduate Programs (M.S.S.E.): 20
- Best Online Graduate Computer Information Technology Programs: 14

Contacts

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Faculty Research Specializations

Dr. Yong Chen
**Assistant Professor**
Data-intensive computing, parallel and distributed computing, high-performance computing, cloud computing, computer architectures, systems software.

Dr. Michael Gelfond
**Professor**
Artificial intelligence, knowledge representation, declarative programming.

Dr. Rattikorn Hewett
**Professor and Department Chair**
Intelligent data understanding, network research and security, software quality assurance.

Dr. Sunho Lim
**Assistant Professor**
Green networking, mobile software, mobile data management, embedded networked systems.

Dr. Noé López-Benitez
**Associate Professor**
Distributed and parallel computing systems, fault-tolerant computing systems, reliability/ availability/performance modeling.

Dr. Susan A. Mengel
**Associate Professor**
Information retrieval, security, and assurance; computer science education.

Dr. Mahshid Rahnama-Naeini
**Assistant Professor**

Dr. J. Nelson Rushton
**Associate Professor**
Programming languages, software engineering, computing education.

Dr. Michael (Eonsuk) Shin
**Associate Professor**
Software engineering, self-managed software systems, secure software engineering, software product lines.

Dr. Akbar Siami-Namin
**Assistant Professor**
Software engineering, testing, and program analysis; cyber security and secure programming; energy-aware software engineering; empirical software engineering; and statistical data analysis.

Dr. Richard Watson
**Associate Professor**
Director of Undergraduate Studies
Artificial intelligence, knowledge representation, declarative programming, intelligent agents, common-sense reasoning, multi-agent systems.

Dr. Yuanlin Zhang
**Associate Professor**
Artificial intelligence, knowledge representation and reasoning.

Dr. Yu Zhuang
**Associate Professor**
Director of Graduate Studies
Parallel computing, high performance memory system, large scale computing, data intensive computing.

Open Faculty Positions
Big Data (2)
Cyber Security and Software Engineering
Computer Science

Department of Computer Science