The Department of Computer Science and Engineering offers graduate studies leading to the degrees of Master of Computer Science, Master of Science in computer science and Doctor of Philosophy. In computer engineering, the Departments of Computer Science and Engineering and Electrical and Computer Engineering offer a joint program leading to the degrees of Master of Engineering, Master of Science and Doctor of Philosophy.

Advanced study in computer science is designed to provide the skills to design and utilize modern computer systems. The field of computer science is rapidly changing and expanding, generating a need for computer scientists in the burgeoning industry. The Department of Computer Science and Engineering is meeting these needs with advanced study in computer science.

Areas of study in computer science and engineering:

- Algorithms and Theory
- Artificial Intelligence, Intelligent Systems, Machine Learning, Natural Language Processing
- Bioinformatics, Computational Biology
- Computational Science
- Computer Architecture
- Computer Science Education
- Computer Vision
- Cyber-Physical Systems
- Cybersecurity
- Data Science
- Databases, Data Mining, Information Retrieval Systems
- Digital Humanities
- Electronic Design Automation and VLSI
- Embedded Systems
- Gaming
- Graphics, Visualization and Computational Fabrication
- Health
- Human-Centered Systems
- Human-Computer Interaction
- Networks
- Parallel and Distributed Computing
- Programming Languages, Compilers
- Robotics, Human-Robot Interaction
- Software and Software Engineering
- Systems

Special laboratory facilities are available to graduate students in:

- Artificial Intelligence
- Brain Networks
- Center for Information Assurance and Security
- Center for Robot-Assisted Search and Rescue
- Center for the Study of Digital Libraries
- Distributed AI Robotics Lab
- Distributed Computing Group
- Electronic Design Automation Lab
- Embedded Systems and Codesign Group
- Geometry and Graphics Group
- High Performance Computing Laboratory
- Information Innovation Lab
- Interface Ecology Laboratory
- Internet Research Lab
- Laboratory for Embedded Networked Sensor Systems
- Laboratory for Software Research
- NetBot Laboratory
- Perception, Sensing and Instrumentation Lab
- Real-Time Distributed Systems
- Real-Time Systems Group
- Secure Communication and Computer Systems Laboratory
- Sketch Recognition Lab
- Software and Systems Group

There is no foreign language requirement for the PhD program in computer science.

Faculty

Akleman, Ergun, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 1992

Andersen, Flemming, Adjunct Professor of Practice
Computer Science & Engineering
PHD, Technical University of Denmark, 1995

Bettati, Riccardo, Professor
Computer Science & Engineering
PHD, University of Illinois, 1994

Botacin, Marcus, Visiting Assistant Professor
Computer Science & Engineering
PHD, Federal University of Paraná (UFPR), 2021

Budimlic, Zoran, Instructional Associate Professor
Computer Science & Engineering
PHD, Rice University, 2001

Carlisle, Martin, Professor of the Practice
Computer Science & Engineering
PHD, Princeton University, 1993

Caverlee, James B, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 2007

Chaspari, Theodora, Assistant Professor
Computer Science & Engineering
PHD, University of Southern California, 2017
Chen, Jianer, Professor  
Computer Science & Engineering  
PHD, Columbia University, 1987

Choe, Yoonsuck, Professor  
Computer Science & Engineering  
PHD, The University of Texas at Austin, 2001

Crawford, Victoria, Assistant Professor  
Computer Science & Engineering  
PHD, University of Florida, 2022

Da Silva, Dilma M, Professor  
Computer Science & Engineering  
PHD, Georgia Institute of Technology, 1997

Davis, Timothy A, Professor  
Computer Science & Engineering  
PHD, University of Illinois at Urbana-Champaign, 1989

Dewitte, Paula S, Professor of the Practice  
Computer Science & Engineering  
JD, St. Mary’s University School of Law, 2008  
PHD, Texas A&M University, 1989

Duffield, Nicholas G, Professor  
Computer Science & Engineering  
PHD, Queen Mary College, Univ. of London, 1987

Duysak, Alpaslan, Instructional Associate Professor  
Computer Science & Engineering  
PHD, Bournemouth University, 2004

Furuta, Richard K, Professor Emeritus  
Computer Science & Engineering  
PHD, University of Washington, 1986

Garay, Juan A, Professor  
Computer Science & Engineering  
PHD, The Pennsylvania State University, 1989

Garcia, Christiana, Instructional Assistant Professor  
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Gratz, Paul V, Professor  
Computer Science & Engineering  
PHD, The University of Texas at Austin, 2008

Gu, Guofei, Professor  
Computer Science & Engineering  
PHD, Georgia Institute of Technology, 2008

Gutierrez-Osuna, Ricardo, Professor  
Computer Science & Engineering  
PHD, North Carolina State University, 1998

Hamilton, John, Professor  
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Hammond, Tracy A, Professor  
Computer Science & Engineering  
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PHD, Hong Kong University of Science and Technology, 2012

Ioerger, Thomas R, Professor  
Computer Science & Engineering  
PHD, University of Illinois, 1996

Jafari, Roozbeh, Professor  
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PHD, University of California, Los Angeles, 2006

Ji, Shuiwang, Professor  
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Jiang, Anxiao, Professor  
Computer Science & Engineering  
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Jimenez, Daniel A, Professor  
Computer Science & Engineering  
PHD, The University of Texas at Austin, 2002

Kerne, Andrew, Professor  
Computer Science & Engineering  
PHD, New York University, 2001

Keyser, John C, Professor  
Computer Science & Engineering  
PHD, University of North Carolina at Chapel Hill, 2000

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Computer Science & Engineering  
PHD, University of California Santa Barbara, 2015

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PHD, Pennsylvania State University, 2003

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PHD, University of Colorado - Boulder, 2019

Klappenecker, Andreas, Professor  
Computer Science & Engineering  
PHD, Universitat Karlsruhe, 1998

Krishnamurthy, Vinayak, Associate Professor  
Computer Science & Engineering  
PHD, Purdue University, 2015
Kuhnle, Alan, Assistant Professor
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PHD, University of Florida, 2018

Kum, Hye Chung, Professor
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PHD, Australian National University, 1998

Liu, Jyh C, Professor
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PHD, University of Michigan at Ann Arbor, 1989

Loguinov, Dmitri, Professor
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Lupoli, Shawn V, Instructional Assistant Professor
Computer Science & Engineering
MS, Towson University, 2004

Mahapatra, Rabinarayan, Professor
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PHD, Indian Institute of Technology, Kharagpur, 1992

McGuire, Timothy, Instructional Professor
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PHD, Texas A&M University, 1991

McNamara, Ann, Associate Professor
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PHD, University of Bristol, UK, 2000

Moore, John Michael, Instructional Assistant Professor
Computer Science & Engineering
PHD, Texas A&M University, 2013
PHD, Texas A&M University, 2007

Mortazavi, Jack B, Assistant Professor
Computer Science & Engineering
PHD, University of California at Los Angeles, 2014

Murphy, Robin R, Professor
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PHD, Georgia Institute of Technology, 1992

Muzahid, Abdullah, Assistant Professor
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Narayanan, Krishna R, Professor
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PHD, Georgia Institute of Technology, 1998

Nguyen, Khanh, Assistant Professor
Computer Science & Engineering
PHD, University of California, Los Angeles, 2019

O’Kane, Jason, Professor
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PHD, University of Illinois, Urbana-Champaign, 2007

Pearce, Olga, Adjunct Associate Professor of Practice
Computer Science & Engineering
PHD, Texas A&M University, 2014

Pearce, Roger, Adjunct Associate Professor of Practice
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Qian, Xiaoning, Professor
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PHD, Yale University, 2005

Quinn, Michael D, Associate Professor of the Practice
Computer Science & Engineering
MS, University of Southern California at Los Angeles, 1978

Ritchey, Philip C, Instructional Associate Professor
Computer Science & Engineering
PHD, Purdue University, 2015

Rojas, Joseph, Professor
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Sarin, Vivek, Associate Professor
Computer Science & Engineering
PHD, University of Illinois, 1997

Saxena, Nitesh, Professor
Computer Science & Engineering
PHD, University of California - Irvine, 2006

Schaefer, Scott D, Professor
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PHD, Rice University, 2006

Shakkottai, Srinivas, Professor
Computer Science & Engineering
PHD, University of Illinois, 2007

Sharon, Guni, Assistant Professor
Computer Science & Engineering
PHD, Ben-Gurion University, 2015

Shell, Dylan A, Associate Professor
Computer Science & Engineering
PHD, University of Southern California, 2008

Shen, Yang, Associate Professor
Computer Science & Engineering
PHD, Boston University, 2008

Shipman III, Frank M, Professor
Computer Science & Engineering
PHD, University of Colorado, 1993
Masters

- Master of Computer Science in Computer Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/mcs/)

Doctoral

- Doctor of Philosophy in Computer Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/engineering-phd/)
- Doctor of Philosophy in Computer Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/phd/)

Masters

- Master of Engineering in Computer Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/engineering-meng/)
- Master of Science in Computer Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/engineering-ms/)
- Master of Science in Computer Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/ms/)