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
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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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PHD, Texas A&M University, 1996

Hammond, Tracy A, Professor
Computer Science & Engineering
PHD, Massachusetts Inst of Technology, 2007

Hougninou, David Kebo, Instructional Assistant Professor
Computer Science & Engineering
PHD, Southern Methodist University, 2017

Hu, Jiang, Professor
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PHD, University of Minnesota, 2001

Huang, Ruohong, Associate Professor
Computer Science & Engineering
PHD, University of Utah, 2014

Huang, Shaoming, Associate Professor
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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
Computer Science & Engineering
PHD, University of California, Los Angeles, 2006

Ji, Shuiwang, Professor
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PHD, Arizona State University, 2010

Jiang, Anxiao, Professor
Computer Science & Engineering
PHD, California Institute of Technology, 2004

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

Khademi Kalantari, Nima, Assistant Professor
Computer Science & Engineering
PHD, University of California Santa Barbara, 2015

Kim, Eun J, Associate Professor
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PHD, Pennsylvania State University, 2003

Kim, Jeeun, Assistant Professor
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PHD, University of Colorado - Boulder, 2019

Klappenecker, Andreas, Professor
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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, University of North Carolina at Chapel Hill, 2004

Kumar, Sandeep, Associate Professor of Practice
Computer Science & Engineering
PHD, Purdue University, 1995

Lee, Hyunyoung, Senior Lecturer
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PHD, Texas A&M University, 2001

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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
Computer Science & Engineering
PHD, City University of New York, 2002

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
Computer Science & Engineering
PHD, Texas A&M University, 1991

McNamara, Ann, Associate Professor
Computer Science & Engineering
PHD, University of Bristol, UK, 2000

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

Mortazavi, Jack B, Assistant Professor
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Murphy, Robin R, Professor
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Muzahid, Abdullah, Assistant Professor
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Computer Science & Engineering
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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
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Pearce, Roger, Adjunct Associate Professor of Practice
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Qian, Xiaoning, Professor
Computer Science & Engineering
PHD, Yale University, 2005

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

Ritchey, Philip C, Instructional Associate Professor
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PHD, Purdue University, 2015

Rojas, Joseph, Professor
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PHD, University of California at Berkeley, 1995

Sarin, Vivek, Associate Professor
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PHD, University of Illinois, 1997

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

Schaefer, Scott D, Professor
Computer Science & Engineering
PHD, Rice University, 2006

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

Sharon, Guni, Assistant Professor
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PHD, Ben-Gurion University, 2015

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

Shen, Yang, Associate Professor
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PHD, Boston University, 2008

Shipman III, Frank M, Professor
Computer Science & Engineering
PHD, University of Colorado, 1993
Song, Dezhen, Professor
Computer Science & Engineering
PHD, University of California at Berkeley, 2004

Stoleru, Radu, Professor
Computer Science & Engineering
PHD, University of Virginia, 2007

Sueda, Shinjiro, Assistant Professor
Computer Science & Engineering
PHD, University of British Columbia, 2010

Sze, Sing H, Associate Professor
Computer Science & Engineering
PHD, University of Southern California, 2000

Taele, Paul, Instructional Assistant Professor
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PHD, Texas A&M University, 2019

Thomas, Shawna, Instructional Assistant Professor
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Tsai, Chia-Che, Assistant Professor
Computer Science & Engineering
PHD, Stony Brook University, 2017

Tyagi, Aakash, Professor of the Practice
Computer Science & Engineering
PHD, University of Louisiana, 1993

Veldt, Luke, Assistant Professor
Computer Science & Engineering
PHD, Purdue University, 2019

Walker, Duncan M, Professor
Computer Science & Engineering
PHD, Carnegie Mellon University, 1986

Wang, Wenping, Professor
Computer Science & Engineering
PHD, University of Alberta, 1992
PHD, University of Alberta, Canada, 1992

Welch, Jennifer L, Professor Emeritus
Computer Science & Engineering
PHD, Massachusetts Institute of Technology, 1988

Yang, Tianbao, Associate Professor
Computer Science & Engineering
PHD, Michigan State University, 2012

Yum, Ki H, Senior Lecturer
Computer Science & Engineering
PHD, The Pennsylvania State University, 2002

Zhang, Yupeng, Assistant Professor
Computer Science & Engineering
PHD, University of Maryland - College Park, 2018

**Masters**

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

- 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/)

**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/)