

College of Science and Technology

With more than 4,000 students, the College of Science and Technology (CST) is one of Temple University's fastest growing schools. Students work side-by-side with experienced faculty researchers in the laboratory, field and classroom. Since 2007, external funding for advanced research has more than doubled, creating new opportunities for CST's more than 200 world-class faculty members. Excellence begins with faculty members who inspire and challenge every student.

A cornerstone of CST's graduate programs is research with a focus on advancing knowledge and finding solutions to today's toughest challenges. This real-world, hands-on approach is ideal for preparing students for careers in academia and industry — or as entrepreneurs in the computer, science and technological fields. Students work closely with world-class researchers to understand the science, hone their investigation skills, and ask pertinent and important questions. Professors create an environment that encourages inquiry and rewards hard work.

CST's efforts to advance the quality of research, education and engagement with the world are greatly enhanced by its state-of-the-art Science Education and Research Center (SERC). As of Fall 2014, SERC is home to advanced laboratories and classrooms designed to attract talented students and scholars and foster interdisciplinary research. It is one of the most advanced facilities of its kind on the East Coast.

Graduate Programs and Certificates

- Bioinformatics PhD
- Bioinformatics and Biological Data Science PSM
- Bioinnovation PSM
- Biology MA
- Biology MS
- Biology PhD
- Biotechnology PSM
- Chemistry MS
- Chemistry PhD
- Computational Data Science MS
- Computer and Information Science PhD
- Computer Science MS
- Cyber Defense and Information Assurance PSM
- Environmental Geoscience MS
- Forensic Chemistry PSM
- Geology MS
- Geoscience PhD
- High-Performance Computing for Scientific Applications PSM
- Information Science and Technology MS
- Mathematics MS
- Mathematics PhD
- Physics MS
- Physics PhD
- Scientific Writing PSM
- Graduate Certificate: Bioinformatics
- Graduate Certificate: Bioinnovation
- Graduate Certificate: Biotechnology
- Graduate Certificate: Computer Science
- Graduate Certificate: Computer Science Instruction
- Graduate Certificate: Cyber Defense and Information Assurance
- Graduate Certificate: Forensic Chemistry
- Graduate Certificate: High-Performance Computing for Scientific Applications
- Graduate Certificate: Information Science and Technology
- Graduate Certificate: Mathematics for Teaching
- Graduate Certificate: Scientific Writing

Graduate Faculty

Shohreh Amini, Professor, Department of Biology, College of Science and Technology; PhD, University of Pennsylvania.

Darius Balciunas, Professor, Department of Biology, College of Science and Technology; PhD, Uppsala University.

Jocelyn Behm, Assistant Professor, Department of Biology, College of Science and Technology; PhD, University of Wisconsin-Madison.

Richard Beigel, Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, Stanford University.

Eric U. Borguet, Professor, Department of Chemistry, College of Science and Technology; PhD, University of Pennsylvania.

Ilya V. Buynevich, Associate Professor, Department of Earth and Environmental Science, College of Science and Technology; PhD, Boston University.

Vincenzo Carnevale, Associate Professor, Department of Biology, College of Science and Technology; PhD, International School for Advanced Studies, Trieste.

Steven M. Chemtob, Associate Professor of Instruction, Department of Earth and Environmental Science, College of Science and Technology; PhD, California Institute of Technology.

Yuzhou Chen, Assistant Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, Princeton University.

Martha Constantinou, Selma Lee Bloch Brown Associate Professor in Physics, Department of Physics, College of Science and Technology; PhD, University of Cyprus.

Erik Cordes, Professor, Department of Biology, College of Science and Technology; PhD, The Pennsylvania State University.

Hai-Lung Dai, Professor, Department of Chemistry, College of Science and Technology; PhD, University of California Berkeley.

Boris A. Datskovsky, Professor, Department of Mathematics, College of Science and Technology; PhD, Harvard University.

Alexandra Krull Davatzes, Associate Professor, Department of Earth and Environmental Science, College of Science and Technology; PhD, Stanford University.

Nicholas Davatzes, Associate Professor, Department of Earth and Environmental Science, College of Science and Technology; PhD, Stanford University.

Franklin A. Davis, Professor Emeritus, Department of Chemistry, College of Science and Technology; PhD, Syracuse University.

Graham Dobereiner, Robert L. Smith Early Career Associate Professor in Chemistry, Department of Chemistry, College of Science and Technology; PhD, Yale University.

Vasily Dolgushev, Professor, Department of Mathematics, College of Science and Technology; PhD, Massachusetts Institute of Technology.

Eduard Dragut, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, University of Illinois at Chicago.

Ananias A. Escalante, Professor, Department of Biology, College of Science and Technology; PhD, University of California Irvine.

Mark A. Feitelson, Professor, Department of Biology, College of Science and Technology; PhD, University of California Los Angeles.

Amy Freestone, Associate Professor, Department of Biology, College of Science and Technology; PhD, University of California Davis.

David Futer, Professor, Department of Mathematics, College of Science and Technology; PhD, Stanford University.

Hongchang Gao, Assistant Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, University of Pittsburgh.

Antonio Giordano, Professor, Department of Biology, College of Science and Technology; PhD, University of Trieste.

Yury Grabovsky, Professor, Department of Mathematics, College of Science and Technology; PhD, New York University.

David E. Grandstaff, Professor Emeritus, Department of Earth and Environmental Science, College of Science and Technology; PhD, Princeton University.

Alexander Gray, Associate Professor, Department of Physics, College of Science and Technology; PhD, Lawrence Berkeley National Laboratory and University of California, Davis.

Cristian E. Gutiérrez, Professor, Department of Mathematics, College of Science and Technology; PhD, University of Buenos Aires.

Raymond Habas, Professor, Department of Biology, College of Science and Technology; PhD, State University of New York at Stony Brook.

Xubin He, Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, University of Rhode Island.

Stephen Blair Hedges, Laura H. Carnell Professor, Department of Biology, College of Science and Technology; PhD, University of Maryland.

Matthew Richard Helmus, Assistant Professor, Department of Biology, College of Science and Technology; PhD, University of Wisconsin-Madison.

Emanuel (Jody) B. Hey, Professor, Department of Biology, College of Science and Technology; PhD, State University of New York at Stony Brook.

Tonia Hsieh, Associate Professor, Department of Biology, College of Science and Technology; PhD, Harvard University.

Maria Iavarone, Professor, Department of Physics, College of Science and Technology; PhD, University of Napoli Federico II.

Mihaela Ignatova, Selma Lee Bloch Brown Assistant Professor in Mathematics, Department of Mathematics, College of Science and Technology; PhD, University of Southern California.

Susan A. Jansen-Varnum, Professor, Department of Chemistry, College of Science and Technology; PhD, University of Missouri-St. Louis.

Krishna Kant, Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, University of Texas at Dallas.

Bojeong Kim, Associate Professor, Department of Earth and Environmental Science, College of Science and Technology; PhD, Cornell University.

Daniel Kim, Assistant Professor, Department of Chemistry, College of Science and Technology; PhD, University of California.

Isaac Klapper, Professor, Department of Mathematics, College of Science and Technology; PhD, New York University Courant Institute of Mathematical Sciences.

Michael L. Klein, Professor, Department of Chemistry, College of Science and Technology; PhD, University of Bristol.

Rob J. Kulathinal, Associate Professor, Department of Biology, College of Science and Technology; PhD, McMaster University.

Sudhir Kumar, Laura H. Carnell Professor, Department of Biology, College of Science and Technology; PhD, The Pennsylvania State University.

Eugene Kwatny, Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, Drexel University.

Paul S. LaFollette Jr., Associate Professor Emeritus, Department of Computer and Information Sciences, College of Science and Technology; MD, Temple University.

Jaclyn Lang, Assistant Professor, Department of Mathematics, College of Science and Technology; PhD, University of California Los Angeles.

Longin Jan Latecki, Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, University of Hamburg.

Robert J. Levis, Professor, Department of Chemistry, College of Science and Technology; PhD, The Pennsylvania State University.

Ronald M. Levy, Laura H. Carnell Professor, Department of Chemistry, College of Science and Technology; PhD, Harvard University.

David A. Liberles, Professor, Department of Biology, College of Science and Technology; PhD, California Institute of Technology.

Chyanlong Lin, Associate Professor Emeritus, Department of Physics, College of Science and Technology; PhD, Temple University.

Martin W. Lorenz, Professor, Department of Mathematics, College of Science and Technology; PhD, Universität Giessen.

A. Marjatta Lyyra, Professor, Department of Physics, College of Science and Technology; PhD, University of Stockholm.

Stephen MacNeil, Assistant Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, University of North Carolina at Charlotte.

Carol M. Manhart, Assistant Professor, Department of Chemistry, College of Science and Technology; PhD, University of Colorado Boulder.

C. Jeffrey Martoff, Professor, Department of Physics, College of Science and Technology; PhD, University of California Berkeley.

Spiridoula Matsika, Professor, Department of Chemistry, College of Science and Technology; PhD, The Ohio State University.

Andreas Metz, Professor, Department of Physics, College of Science and Technology; PhD, Institut Für Kernphysik Universität Mainz.

Irina Mitrea, Laura H. Carnell Professor, Department of Mathematics, College of Science and Technology; PhD, University of Minnesota.

Anna Moore, Assistant Professor, Department of Biology, College of Science and Technology; PhD, University of Connecticut Health Center.

Katrina L. Morgan, Assistant Professor, Department of Mathematics, College of Science and Technology; PhD, University of North Carolina at Chapel Hill.

Atsuhiko Muto, Associate Professor, Department of Earth and Environmental Science, College of Science and Technology; PhD, University of Colorado.

James Napolitano, Professor, Department of Physics, College of Science and Technology; PhD, Stanford University.

Allen W. Nicholson, Professor, Department of Biology, College of Science and Technology; PhD, University of Pennsylvania.

Jonathan Nyquist, Professor, Department of Earth and Environmental Science, College of Science and Technology; PhD, University of Wisconsin.

Zoran Obradovic, Laura H. Carnell Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, The Pennsylvania State University.

Jamie Payton, Professor, Department of Computer and Information Sciences, College of Science and Technology; DSc, Washington University.

Sergei L. Kosakovsky Pond, Professor, Department of Biology, College of Science and Technology; PhD, University of Arizona.

Sean Gillian Queisser, Associate Professor, Department of Mathematics, College of Science and Technology; PhD, Ruprecht-Karls University of Heidelberg.

Sujith Ravi, Associate Professor, Department of Earth and Environmental Science, College of Science and Technology; PhD, University of Virginia.

Brian Rider, Professor, Department of Mathematics, College of Science and Technology; PhD, New York University Courant Institute of Mathematical Sciences.

Peter S. Riseborough, Professor, Department of Physics, College of Science and Technology; PhD, Imperial College London.

Igor Rivin, Professor, Department of Mathematics, College of Science and Technology; PhD, Princeton University.

Robert W. Sanders, Professor, Department of Biology, College of Science and Technology; PhD, University of Georgia.

Christian E. Schafmeister, Professor, Department of Chemistry, College of Science and Technology; PhD, University of California San Francisco.

Benjamin Seibold, Professor, Department of Mathematics, College of Science and Technology; PhD, University of Kaiserslautern.

Brent Sewall, Associate Professor, Department of Biology, College of Science and Technology; PhD, University of California Davis.

Joel B. Sheffield, Professor Emeritus, Department of Biology, College of Science and Technology; PhD, University of Chicago.

Xinghua Mindy Shi, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, University of Chicago.

Yuan Justin Shi, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, University of Pennsylvania.

Scott M. Sieburth, Professor Emeritus, Department of Chemistry, College of Science and Technology; PhD, Harvard University.

Richard Souvenir, Professor, Department of Computer and Information Sciences, College of Science and Technology; DSc, Washington University.

Francis C. Spano, Professor, Department of Chemistry, College of Science and Technology; PhD, Princeton University.

Nikolaos Sparveris, Associate Professor, Department of Physics, College of Science and Technology; PhD, University of Athens.

Rachel Spigler, Associate Professor, Department of Biology, College of Science and Technology; PhD, University of Georgia.

Robert J. Stanley, Professor, Department of Chemistry, College of Science and Technology; PhD, The Pennsylvania State University.

Matthew Stover, Associate Professor, Department of Mathematics, College of Science and Technology; PhD, University of Texas at Austin.

Daniel R. Strongin, Professor, Department of Chemistry, College of Science and Technology; PhD, University of California Berkeley.

Yugang Sun, Professor, Department of Chemistry, College of Science and Technology; PhD, University of Science and Technology of China.

Bernd Surrow, Professor, Department of Physics, College of Science and Technology; PhD, University of Hamburg.

Daniel B. Szyld, Professor, Department of Mathematics, College of Science and Technology; PhD, New York University.

Chiu Chiang Tan, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, College of William and Mary.

Rongjia Tao, Professor, Department of Physics, College of Science and Technology; PhD, Columbia University.

Samuel J. Taylor, Associate Professor, Department of Mathematics, College of Science and Technology; PhD, University of Texas at Austin.

Dennis O. Terry Jr., Associate Professor, Department of Earth and Environmental Science, College of Science and Technology; PhD, University of Nebraska.

Laura Toran, Professor, Department of Earth and Environmental Science, College of Science and Technology; PhD, University of Wisconsin.

Darius H. Torchinsky, Associate Professor, Department of Physics, College of Science and Technology; PhD, Massachusetts Institute of Technology.

Allison Tumarkin-Deratzian, Professor of Instruction, Department of Earth and Environmental Science, College of Science and Technology; PhD, University of Pennsylvania.

Ann M. Valentine, Professor, Department of Chemistry, College of Science and Technology; PhD, Massachusetts Institute of Technology.

Vincent Voelz, Associate Professor, Department of Chemistry, College of Science and Technology; PhD, University of California San Francisco.

Slobodan Vucetic, Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, Washington State University.

Anduo Wang, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, University of Pennsylvania.

Pei Wang, Associate Professor of Instruction, Department of Computer and Information Sciences, College of Science and Technology; PhD, Indiana University.

Rongsheng Wang, Associate Professor, Department of Chemistry, College of Science and Technology; PhD, Washington University in St. Louis.

Yan Wang, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, Stevens Institute of Technology.

Yu Wang, Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, Illinois Institute of Technology.

Richard B. Waring, Associate Professor Emeritus, Department of Biology, College of Science and Technology; PhD, Essex University.

Sarah Elizabeth Wengryniuk, Robert L. Smith Early Career Associate Professor in Chemistry, Department of Chemistry, College of Science and Technology; PhD, Duke University.

Katherine A. Willets, Professor, Department of Chemistry, College of Science and Technology; PhD, Stanford University.

Jie Wu, Laura H. Carnell Professor, Department of Computer and Information Sciences, College of Science and Technology; PhD, Florida Atlantic University.

Xifan Wu, Professor, Department of Physics, College of Science and Technology; PhD, Rutgers University.

Stephanie L. Wunder, Professor, Department of Chemistry, College of Science and Technology; PhD, University of Massachusetts.

Xiaoxing Xi, Laura H. Carnell Professor, Department of Physics, College of Science and Technology; PhD, Peking University and Institute of Physics.

Wei-Shih Yang, Professor, Department of Mathematics, College of Science and Technology; PhD, Cornell University.

Weidong Yang, Professor, Department of Biology, College of Science and Technology; PhD, Fudan University.

Atilla Yilmaz, Associate Professor, Department of Mathematics, College of Science and Technology; PhD, New York University.

Tan Yuen, Associate Professor, Department of Physics, College of Science and Technology; PhD, Temple University.

Michael J. Zdilla, Professor, Department of Chemistry, College of Science and Technology; PhD, Princeton University.