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.

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.

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.

Programs

Degree Programs and Certificates

- Bioinformatics, P.S.M. (http://bulletin.temple.edu/graduate/scd/cst/bioinformatics-psm)
- Bioinformatics, Ph.D. (http://bulletin.temple.edu/graduate/scd/cst/bioinformatics-phd)
- Bioinnovation, P.S.M. (http://bulletin.temple.edu/graduate/scd/cst/bioinnovation-psm)
- Biology, M.S. (http://bulletin.temple.edu/graduate/scd/cst/biology-ms)
- Biology, Ph.D. (http://bulletin.temple.edu/graduate/scd/cst/biology-phd)
- Biotechnology, P.S.M. (http://bulletin.temple.edu/graduate/scd/cst/biotechnology-psm)
- Chemistry, M.S. (http://bulletin.temple.edu/graduate/scd/cst/chemistry-ms)
- Chemistry, Ph.D. (http://bulletin.temple.edu/graduate/scd/cst/chemistry-phd)
- Computational Data Science, M.S. (http://bulletin.temple.edu/graduate/scd/cst/computational-data-science-ms)
- Computer and Information Science, Ph.D. (http://bulletin.temple.edu/graduate/scd/cst/computer-information-science-phd)
- Computer Science, M.S. (http://bulletin.temple.edu/graduate/scd/cst/computer-science-ms)
- Cyber Defense and Information Assurance, P.S.M. (http://bulletin.temple.edu/graduate/scd/cst/cyber-defense-information-assurance-psm)
- Forensic Chemistry, P.S.M. (http://bulletin.temple.edu/graduate/scd/cst/forensic-chemistry-psm)
- Geology, M.S. (http://bulletin.temple.edu/graduate/scd/cst/geology-ms)
- Geoscience, Ph.D. (http://bulletin.temple.edu/graduate/scd/cst/geoscience-phd)
- Information Science and Technology, M.S. (http://bulletin.temple.edu/graduate/scd/cst/information-science-technology-ms)
- Mathematics, M.S. (http://bulletin.temple.edu/graduate/scd/cst/mathematics-ms)
- Mathematics, Ph.D. (http://bulletin.temple.edu/graduate/scd/cst/mathematics-phd)
- Physics, M.S. (http://bulletin.temple.edu/graduate/scd/cst/physics-ms)
- Physics, Ph.D. (http://bulletin.temple.edu/graduate/scd/cst/physics-phd)
- Scientific Writing, P.S.M. (http://bulletin.temple.edu/graduate/scd/cst/scientific-writing-psm)
- Graduate Certificate: Computer Science (http://bulletin.temple.edu/graduate/scd/cst/computer-science-certificate)
- Graduate Certificate: Information Science and Technology (http://bulletin.temple.edu/graduate/scd/cst/information-science-technology-certificate)
- Graduate Certificate: Scientific Writing (http://bulletin.temple.edu/graduate/scd/cst/scientific-writing-certificate)

Graduate Faculty

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

Rodrigo B. Andrade, Associate Professor, Department of Chemistry, College of Science and Technology; Ph.D., Massachusetts Institute of Technology.

Darius Balciunas, Associate Professor, Department of Biology, College of Science and Technology; Ph.D., Uppsala University.

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

Richard Beigel, Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., Stanford University.
Shiferaw S. Berhanu, Professor, Department of Mathematics, College of Science and Technology; Ph.D., Rutgers University.

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

Ilya V. Buynovch, Associate Professor, Department of Earth and Environmental Science, College of Science and Technology; Ph.D., Boston University.

Vincenzo Carnevale, Assistant Professor (Research), Department of Biology, College of Science and Technology; Ph.D., International School for Advanced Studies, Trieste.

Steven M. Chemtob, Assistant Professor, Department of Earth and Environmental Science, College of Science and Technology; Ph.D., California Institute of Technology.

Ke Chen, Associate Professor (Research), Department of Physics, College of Science and Technology; Ph.D., Chinese Academy of Sciences.

Martha Constantiou, Assistant Professor, Department of Physics, College of Science and Technology; Ph.D., University of Cyprus.

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

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

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

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

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

Graham Dobereiner, Assistant Professor, Department of Chemistry, College of Science and Technology; Ph.D., Yale University.

Vasily Dolgoshe, Associate Professor, Department of Mathematics, College of Science and Technology; Ph.D., Massachusetts Institute of Technology.

Eduard Dragut, Assistant Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., University of Illinois at Chicago.

Xiaojian Du, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., University of Maryland College Park.

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

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

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

David Futer, Associate Professor, Department of Mathematics, College of Science and Technology; Ph.D., Stanford University.

Edward T. Gawinski, Associate Professor, Department of Physics, College of Science and Technology; Ph.D., Boston University.

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

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

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

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

Yuhong Guo, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., University of Alberta.

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

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

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

Stephen Blair Hedges, Professor, Department of Biology, College of Science and Technology; Ph.D., University of Maryland.

Matthew Richard Helmus, Assistant Professor, Department of Biology, College of Science and Technology; Ph.D., University of Wisconsin-Madison.
Emanuel B. Hey, Professor, Department of Biology, College of Science and Technology; Ph.D., State University of New York Stony Brook.

S. Tonia Hsieh, Assistant Professor, Department of Biology, College of Science and Technology; Ph.D., Harvard University.

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

Mihaela Ignatova, Assistant Professor, Department of Mathematics, College of Science and Technology; Ph.D., University of Southern California.

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

Bo Ji, Assistant Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., The Ohio State University.

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

Boeung Kim, Assistant Professor, Department of Earth and Environmental Science, College of Science and Technology; Ph.D., Cornell University.

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

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

James F. Korsh, Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., University of Pennsylvania.

Rob J. Kulaithin, Assistant Professor, Department of Biology, College of Science and Technology; Ph.D., McMaster University.

Sudhir Kumar, Professor, Department of Biology, College of Science and Technology; Ph.D., The Pennsylvania State University.

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

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

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

Edward S. Letzter, Professor, Department of Mathematics, College of Science and Technology; Ph.D., University of Washington.

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

Ronald M. Levy, Professor, Department of Chemistry, College of Science and Technology; Ph.D., Harvard University.

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

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

Haibin Ling, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., University of Maryland College Park.

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

A. Marjatta Lyra, Professor, Department of Physics, College of Science and Technology; Ph.D., University of Stockholm.

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

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

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

Gerardo A. Mendoza, Professor, Department of Mathematics, College of Science and Technology; Ph.D., Massachusetts Institute of Technology.

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

Zein-Eddine Meziani, Professor, Department of Physics, College of Science and Technology; Ph.D., Université de Paris XI.

Irina Mitrea, Professor, Department of Mathematics, College of Science and Technology; Ph.D., University of Minnesota.

Anna Moore, Assistant Professor, Department of Biology, College of Science and Technology; Ph.D., UCONN Health Center.

Atsuhiro Muto, Assistant Professor, Department of Earth and Environmental Science, College of Science and Technology; Ph.D., University of Colorado.

James Napolitano, Professor, Department of Physics, College of Science and Technology; Ph.D., Stanford University.
Allen W. Nicholson, Professor, Department of Biology, College of Science and Technology; Ph.D., University of Pennsylvania.

John T. Nosek, Professor Emeritus, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., Temple University.

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

Zoran Obradovic, Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., The Pennsylvania State University.

Karen B. Palter, Associate Professor, Department of Biology, College of Science and Technology; Ph.D., Princeton University.

Susan Patterson, Associate Professor, Department of Biology, College of Science and Technology; Ph.D., University of Washington.

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

John P. Perdew, Professor, Department of Physics, College of Science and Technology; Ph.D., Cornell University.

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

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

Sujith Ravi, Assistant Professor, Department of Earth and Environmental Science, College of Science and Technology; Ph.D., University of Virginia.

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

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

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

Adrienn Ruzsinszky Perdew, Assistant Professor, Department of Physics, College of Science and Technology; Ph.D., Budapest University of Technology and Economics.

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

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

Joshua G. Schraiber, Assistant Professor, Department of Biology, College of Science and Technology; Ph.D., University of California Berkeley.

Benjamin Seibold, Associate Professor, Department of Mathematics, College of Science and Technology; Ph.D., University of Kaiserslautern.

Brent Sewall, Assistant Professor, Department of Biology, College of Science and Technology; Ph.D., University of California Davis.

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

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

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

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

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

Nikolaos Sparveris, Assistant Professor, Department of Physics, College of Science and Technology; Ph.D., University of Athens.

Rachel Spigler, Assistant Professor, Department of Biology, College of Science and Technology; Ph.D., University of Georgia.

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

Matthew Stover, Assistant Professor, Department of Mathematics, College of Science and Technology; Ph.D., University of Texas at Austin.

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

Yugang Sun, Associate Professor, Department of Chemistry, College of Science and Technology; Ph.D., University of Science and Technology of China.
Bernd Surrow, Associate Professor, Department of Physics, College of Science and Technology; Ph.D., University of Hamburg.

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

Chiu Chiang Tan, Assistant Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., College of William and Mary.

Jacqueline C. Tanaka, Associate Professor, Department of Biology, College of Science and Technology; Ph.D., University of Illinois.

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

Samuel J. Taylor, Assistant Professor, Department of Mathematics, College of Science and Technology; Ph.D., University of Texas at Austin.

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

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

Darius H. Torchinsky, Assistant Professor, Department of Physics, College of Science and Technology; Ph.D., Massachusetts Institute of Technology.

Allison Tumarkin-Deratzian, Associate Professor (Teaching/Instructional), Department of Earth and Environmental Science, College of Science and Technology; Ph.D., University of Pennsylvania.

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

Vincent Voelz, Assistant Professor, Department of Chemistry, College of Science and Technology; Ph.D., University of California San Francisco.

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

Anduo Wang, Assistant Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., University of Pennsylvania.

Pei Wang, Associate Professor (Teaching/Instructional), Department of Computer and Information Sciences, College of Science and Technology; Ph.D., Indiana University.

Rongsheng Wang, Assistant Professor, Department of Chemistry, College of Science and Technology; Ph.D., Washington University in St. Louis.

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

Bradford B. Wayland, Professor, Department of Chemistry, College of Science and Technology; Ph.D., University of Illinois.

Sarah Elizabeth Wengrynuk, Assistant Professor, Department of Chemistry, College of Science and Technology; Ph.D., Duke University.

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

Jie Wu, Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., Florida Atlantic University.

Xifan Wu, Assistant Professor, Department of Physics, College of Science and Technology; Ph.D., Rutgers University.

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

Xiaoxing Xi, Professor, Department of Physics, College of Science and Technology; Ph.D., Peking University and Institute of Physics.

Qimin Yan, Assistant Professor, Department of Physics, College of Science and Technology; Ph.D., University of California Santa Barbara.

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

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

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

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

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

Kai Zhang, Associate Professor, Department of Computer and Information Sciences, College of Science and Technology; Ph.D., Hong Kong University of Science and Technology.