SCHOOL OF

SCIENCE AND ENGINEERING

Learn.
Discover.
Collaborate.
Innovate.
The Tulane University School of Science and Engineering combines the very best of a top tier research university with a strong commitment to high quality undergraduate education. Our faculty, who conduct research at the forefront of their disciplines, offer outstanding degree programs at the undergraduate and graduate levels.

DEGREES
The School of Science and Engineering offers the following undergraduate and graduate degree programs.

**Undergraduate Degree Programs**
- Biological Chemistry
- Biomedical Engineering
- Cell & Molecular Biology
- Chemical Engineering
- Chemistry
- Computer Science
- Ecology & Evolutionary Biology
- Engineering Physics
- Environmental Biology
- Environmental Earth Science
- Geology
- Mathematics
- Neuroscience
- Physics
- Psychology

*DENOTES MASTERS DEGREES ONLY

**Graduate Degree Programs**
- Behavioral Health*
- Biomedical Engineering
- Cell & Molecular Biology
- Chemical & Biomolecular Engineering
- Chemistry
- Computational Science*
- Earth & Environmental Sciences
- Ecology & Evolutionary Biology
- Interdisciplinary Ph.D.
  - Aging Studies
  - BioInnovation
  - Computer Science
- Mathematics
- Materials Physics & Engineering
- Neuroscience
- Physics
- Psychology

**FACULTY**
The School of Science and Engineering currently has a team of 60 professors, 34 associate professors, 30 assistant professors, 34 professors of practice and 10 research professors.

The School of Science and Engineering is supported by 13 endowed chair positions, 11 endowed professorships and 6 endowed early career professorships.

**SSE’s Faculty**

![SSE’s Faculty Chart](chart.png)
STUDENTS
Currently, the School of Science and Engineering has 2580 undergraduate majors, 123 master students, and 345 doctoral students.
Last year over 250 undergraduate students participated on projects linked to sponsored research in the School of Science and Engineering.
Our students benefit from 77 endowed scholarship and fellowship funds explicitly targeted to science and engineering students.

RESEARCH
The faculty of the School of Science and Engineering attract over $20 million dollars in sponsored research, generate over 500 articles in refereed journals, and file for over 15 new patents each year.
The School of Science and Engineering generates millions in research dollars for the University, champions undergraduate research opportunities, and annually graduates the largest number of doctoral students at Tulane.
The following **facilities** comprise the campus of the School of Science and Engineering:

- Percival Stern Hall
- Lindy Boggs Center for Energy & Biotechnology
- Israel Environmental Sciences Building
- Stanley Thomas Hall
- Walter Blessey Hall
- Flower Hall for Research & Innovation
- Science and Engineering Lab Complex
- Science and Engineering Facilities
- Gibson Hall – Mathematics Department
- BJB Building – Interdisciplinary Research in Health Sciences
- Hebert Center – Biodiversity Research Institute
- University Square – Satellite Psychology Labs
- River and Coastal Center – Coastal Science and Engineering

The faculty of the School of Science and Engineering are affiliated with the following Tulane University research centers:

**CENTER FOR AGING** - dedicated to the strengthening of training and service in the areas of geriatric medicine and gerontology in cooperation with the Section of General Internal Medicine and Geriatrics in the Department of Medicine and the School of Social Work, respectively. Our educational activities reach beyond the university and into the community.

**CENTER FOR BIOINFORMATICS AND GENOMICS** - promotes bioinformatics, computational biology, and translational research of human complex diseases/trait with the goal of accelerating the pace of scientific discovery, reducing mortality and improving the quality of life.

**CENTER FOR COMPUTATIONAL SCIENCE (CCS)** - is the first Center established in the Gulf region to focus on computational science research projects across many disciplines. The Center provides an infrastructure for investigators interested in computational science to exchange ideas, produce research and establish new collaborations.

**CENTER FOR POLYMER REACTION MONITORING AND CHARACTERIZATION (POLYRMC)** - one of the world’s premier centers for research and development in polymerization reaction monitoring, it is involved in comprehensive monitoring of polymerization reactions, accelerating the creation of new materials, and promoting full-scale reactor control.

**CENTER FOR STEM CELL RESEARCH AND REGENERATIVE MEDICINE** - devoted to developing new therapies for a series of common diseases including osteoporosis, osteoarthritis, Parkinsonism, spinal cord injury, stroke, diabetes and Alzheimer’s disease.

**TULANE BIODIVERSITY RESEARCH INSTITUTE** - Historically functioning as a natural history museum, comprising research collections of invertebrates, fishes, amphibians and reptiles, birds, mammals, and vertebrate fossils, only the Royal D. Suttkus Fish Collection is being retained and TUBRI now specializes in biodiversity discovery (primarily in fish) and biodiversity informatics research.

**TULANE BRAIN INSTITUTE** - founded in 2016, builds upon the over 30 years of success of the Tulane Neuroscience Program. The University-wide Brain Institute was created as a trans disciplinary entity to coordinate and oversee neuroscience-related endeavors at Tulane and brings together faculty from across the University including from the Main Campus, the Health Sciences Campus, and the Tulane National Primate Research Center. The three pillars of the Tulane Brain Institute are **research**, **education and training**, and **community outreach and engagement**. Our vision is to create a new era of discovery, learning, and public influence in the brain sciences at Tulane.

**TULANE CANCER CENTER** - devoted to enhance teaching, research and patient care at Tulane, to foster scientific discovery and to translate research advances into clinical cancer care, and to improve cancer prevention and early detection.

**TULANE HYPERTENSION AND RENAL CENTER OF EXCELLENCE** - was established to centralize and coordinate research activities related to cardiovascular, kidney, and hypertension diseases.

**TULANE–XAVIER CENTER FOR BIOENVIRONMENTAL RESEARCH (CBR)** - The Tulane-Xavier Center for Bioenvironmental Research (CBR) has a mission of conducting and facilitating environmental research through cross disciplinary partnerships and collaborations. As an academic center under the Office of Research at Tulane, the CBR supports the University’s mission of academic excellence, while at the same time engaging government, community and other academic organizations. The CBR and its partners take advantage of the natural laboratory of the region to address questions of global concern. With an emphasis on achieving a sustainable balance between natural and human systems, the CBR continually strives to enhance programs in energy, environment, and resilience.

**VECTOR-BORNE INFECTIOUS DISEASES RESEARCH CENTER** - addresses the complex challenges presented by bacterial, viral, and parasitic pathogens transmitted by diverse vectors and develop research programs investigating biological mechanisms of adaptation, mechanisms of pathogenesis, patterns of disease transmission, diagnostics, and development of tools to control Vector Borne Infectious Diseases.