Ranked as one of the top 100 universities in the nation and in the top 40 national public universities by U.S. News & World Report, Stony Brook is repeatedly recognized for its engagement in cutting-edge research and novel approaches to inquiry and understanding. We have been one of only 94 institutions in the country to be designated a “Very High Research University” by the Carnegie Foundation.

Our faculty have been responsible for more than 1,900 inventions and more than 550 patents. With more than 70 academic departments, Stony Brook has been ranked among the top 40 institutions funded by the National Science Foundation, and our expenditures on organized research have exceeded $160 million. With graduate program offerings in nearly 50 fields, The Graduate School is here and ready to provide you with the environment and resources you need to excel.

WHY CHOOSE STONY BROOK?

Research Excellence
The engineering and applied science programs at Stony Brook host opportunities for graduate students in energy storage, circuitry and polymer science, wireless and information technology and computational science. Interdisciplinary opportunities in bioengineering, physical and quantitative biology, sensor systems and diagnostics, and advanced manufacturing are also available.

Outstanding Faculty
Stony Brook faculty have been the recipients of numerous international awards and prizes, including four Nobel prizes, seven National Medals of Science, four MacArthur Foundation Prizes, three National Medals of Technology and Innovation, and two inductions into the National Inventors Hall of Fame.

Collaborative Opportunities With World-Renowned Research Centers
Stony Brook is proud to have working partnerships with Brookhaven National Laboratory, as part of our partnership in Brookhaven Science Associates, and Cold Spring Harbor Laboratory. Many of our graduate students work alongside lab investigators on research initiatives, and researchers teach courses at Stony Brook.

Funding Opportunities
The Graduate School at Stony Brook University offers a variety of highly competitive funding opportunities for doctoral study, such as teaching and research assistantships, Graduate Council fellowships, the Dr. W. Burghardt Turner Fellowship and GEM Fellowship, as well as tuition scholarships. Enrolled students also can compete for a variety of other fellowships and awards.

Professional Development and Growth
The Graduate School works at the intersection of research and educational advancement to support the success of our scholars and promote diversity and inclusion in graduate education. The Graduate School’s Office for Integration of Research, Education and Professional Development and its Center for Inclusive Education offer a multitude of support programs and development opportunities to assist graduate students in achieving their academic and professional goals.
NILSSON HOLGUIN was an accomplished undergraduate researcher and designer when he was accepted to Stony Brook’s doctoral program in biomedical engineering in 2005, and awarded a prestigious Dr. W. Burghardt Turner Fellowship. He came to the University the summer before he began studies toward his degree as part of a National Science Foundation-funded summer bridge program coordinated by the Center for Inclusive Education, a division of The Graduate School. He also applied for and was awarded NASA’s Harriett Jenkins Fellowship to support his doctoral research. Advised by Professor Stefan Judex, Nilsson used his dissertation research as a way to understand the contribution of mechanical loading toward degeneration or maintenance of the intervertebral disc. He graduated with his PhD in 2010.

Today Nilsson is a postdoctoral fellow in the Department of Orthopaedic Surgery at the University of Washington in St. Louis, Missouri. His work investigates the anabolic and catabolic mechanisms of mechanical loads on bones and intervertebral discs. Nilsson plans to pursue a career in higher education at a research-intensive university as a tenure-track faculty member, contributing through his research to innovations in science discovery and leadership.

DEGREE PROGRAMS

Applied Mathematics and Statistics, MS, PhD
Biomedical Engineering, MS, PhD
Chemical Engineering, PhD
Civil Engineering, MS, PhD
Computer Engineering, MS, PhD
Computer Science, MS, PhD
Electrical Engineering, MS, PhD
Materials Science and Engineering, MS, PhD
Mechanical Engineering, MS, PhD
Technological Systems Management, MS
Technology, Policy and Innovation, PhD

INSTITUTES AND RESEARCH CENTERS

The Institute for Advanced Computational Science works to further the science and applications of computing to solve complex problems in the physical sciences, life sciences, medicine, sociology, industry and finance.

Through partnerships with universities, research institutions, energy providers, private industry and the U.S. Department of Energy, the Advanced Energy Research and Technology Center is developing technologies that explore ways of producing and promoting clean energy.

The Center for Thermal Spray Research houses initiatives in fundamental science and engineering to enhance the scientific base of thermal spray coating technology.

The Communications, Signal Processing and Networking Laboratory supports the research efforts of faculty members and graduate and undergraduate students of the Department of Electrical and Computer Engineering whose work is in the areas of communications, signal processing and networking.

For more information about our programs, please visit www.grad.stonybrook.edu

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