

To Whom It May Concern

Re: Information on Graduate Application into SUNY Korea

Dear Prospective Student,

I thank you for your interest in Mechanical Engineering at SUNY Korea. At the present time, energy (combustion, conservation, hybrid gas-electric, innovative generation techniques, Fire, etc.) is one of our focus research areas in SUNY Korea. The other areas are Design/Manufacturing – robotics, nanotechnology. I strongly encourage you to submit your application for the M.S. and/or Ph.D. studies in one of these areas.

Compared to Stony Brook University (SBU) in New York, your chances of obtaining financial assistance for the Ph.D. program may be better at SUNY Korea, and you will have access to the same high-caliber professors, including those at Stony Brook.

Although we are located in South Korea, the degree will be that of Stony Brook University (SBU) in New York. In fact, the degree certificate will not have any reference to Korea! Moreover, SUNY Korea students will have co-advisors at SBU, and spend their final year at SBU in New York to complete their research work there, giving them the opportunity to do the Optional Practical Training (OPT) in the U.S., if they choose to do so. The practical training may allow them to work for 12 to 17 months in the U.S. after graduation.

For graduate admission, we place a lot of emphasis on the caliber of the institution where you received the undergraduate and/or Master's degree(s), the relevance of the courses you have taken, and your grade-point average (GPA). The language of instruction at SUNY Korea is English. Therefore, we ask for your Test of English as a Second Language (TOEFL) scores if you are not native English speaker. To receive full financial assistance for the Ph.D. program, you will need a minimum score of 90 in TOEFL (or 6.5 in IELTS). We also require GRE or an equivalent qualification. Visit the URL:

<http://www.sunykorea.ac.kr/m-e-graduate-admission>

for more details on the admission requirements for the Master's and Ph.D. degrees in Mechanical Engineering at SUNY Korea.

All applicants for graduate programs at SUNY Korea will use the same online application as other students who are applying to the Stony Brook campus. You just need to select "Korea" in a listbox that asks you to select between "Local," "International," and "Korea."

You can access the graduate application site directly from:

https://app.applyyourself.com/AYApplicantLogin/fl_ApplicantLogin.asp?id=sunysb-gs

As you are probably aware, South Korea is a very advanced country and the location of our school there, Songdo, is a reclaimed land that has been built as an international, futuristic, city. So, students will be getting the best of both Korea and the U.S.

Please let me know if there is anything I can do to make it easier for you to apply to our program.

Sincerely,

Foluso Ladeinde (Signed)

Foluso Ladeinde, Ph.D. (Foluso.Ladeinde@stonybrook.edu)
Fellow, ASME; Associate Fellow, AIAA;
Life Member, AIAA, APS; M.SIAM.
Past Associate Editor, AIAA Journal.

About SUNY

The State University of New York (SUNY) is the largest and most comprehensive state university system in the United States. SUNY was officially established in 1948 when New York became the 48th state to create a state university system. SUNY initially represented a consolidation of 29 unaffiliated institutions, including 11 teachers colleges. Today, SUNY has grown to include 64 geographically dispersed campuses that have been established in order to provide high quality education and opportunity.

About SBU

Stony Brook University (SBU) is one of the four major campuses of the SUNY system, located on Long Island, New York. The University campus lies about 60 miles east of Manhattan and 60 miles west of Montauk Point. SBU was established in 1957 as a college for the preparation of secondary school teachers of mathematics and science. Since then, SBU has grown tremendously and is now recognized as one of the nation's important centers of learning and scholarship.

About the Program

Mechanical Engineering

Department of Mechanical Engineering

- M.S. With Thesis
M.S. Without Thesis
Ph.D. Always Requires a Thesis
- May need to choose an area of concentration:
 - Design and Manufacturing (DM)
 - Solid Mechanics (SM)
 - Thermal Science and Fluid Mechanics (TSFM)

Graduation Requirements (M.S.)

Mechanical Engineering

- M.S. With Thesis:
 - 21 approved graduate course credits and a thesis (9 credits)
 - Oral Thesis Defense exam
- M.S. Without Thesis:
 - 30 approved graduate course credits
 - A minimum of 18 approved graduate credits from the Department of Mechanical Engineering
- Both M.S. Programs:
 - May transfer a maximum of 12 approved graduate credits from other programs at SUNY Korea / SUNY Stony Brook, or a maximum of 6 credits from other institutions.

Graduation Requirements (Ph.D.)

Mechanical Engineering

- A minimum of 18 approved graduate credits beyond the M.S. degree requirements; maximum of 9 credits from Mechanical Engineering
- A maximum of 6 approved graduate credits from other programs (other institutions) may be transferred. Cannot be the same credits for M.S. and Ph.D.
- Must pass a Written Qualifying exam in Applied Mathematics and in the student's major area of concentration

Graduation Requirements (Ph.D.) -Continued

Mechanical Engineering

- Need a minor area of concentration – which can be another area of concentration in ME or in Electrical Engineering, Material Science & Engineering, Computer Science, Applied Mathematics, and Biomedical Engineering
- A coherent sequence of 3 graduate courses in the minor, with a grade of B or better in each course
- 3 credits in MEC 698 (Practicum in Teaching II)
- Dissertation Proposal Exam must be taken and passed after the student has been admitted to candidacy
- Dissertation Defense Exam must be taken and passed upon completion of the dissertation

Faculty

Mechanical Engineering

Faculty	Qualifications
Foluso Ladeinde	Department Chair , Ph.D., 1988, Cornell University, Mechanical & Aerospace Engineering. Theoretical and computational fluid dynamics; turbulence and turbulent flows; chemically-reacting subsonic and supersonic flows; aerospace propulsion; applied mathematics; aerodynamic noise prediction and reduction; engine technologies
David Hwang	Assistant Professor , Ph.D., 2005, University of California, Berkeley: Mechanical Engineering. Pulsed laser processing of electronic materials in micro/nano scales
Robert V. Kukta	Associate Professor , Ph.D., 1997, Brown University: Engineering Observations on the kinetics of relaxation in epitaxial films grown on conventional and compliant substrates: Continuum simulations of dislocation glide near an interface
Juhyuk Moon	Assistant Professor , Ph.D., 2005, University of California, Berkeley: Civil and Environmental Engineering; Structural engineering, mechanics and materials; material science and physical chemistry; experimental and theoretical studies of mechanical properties of complex oxides in concrete.
Imin Kao	Cross-Appointed SB Professor , Ph.D., 1991, Stanford University: Mechanical Engineering. Robotics; stiffness control; wire saw manufacturing process; manufacturing automation; Taguchi methods
Sotirios Mamalis	Cross-Appointed SB Professor , Ph.D., University of Michigan: Mechanical Engineering Simulation and thermodynamic analysis of high pressure lean-burn engines
Jeff Ge	Cross-Appointed SB Professor , Ph.D., 1990, University of California, Irvine: Mechanical Engineering. Design automation and robotics.

Faculty

Mechanical Engineering

Faculty	Qualifications
Noah Machtay	Research Associate Professor , Ph.D. State University of New York at Stony Brook, New York: Mechanical Engineering. Multi-scale computational and experimental mechanics, advanced manufacturing technology, mechatronic systems design and analysis, advanced transportation systems, energy technology, motorsports
Dr. Alex Krejci	Research Assistant Professor , Ph.D. 2013, Vanderbilt University (Physics), Nanotechnology
Gun-Woong Bahng	Leading Professor (Research) , Ph.D. 1982, Northwestern University, Evanston, IL, (Materials and Science and Engineering), Internal Combustion Engine
Kazem Mahdavi	Visiting Professor , Ph.D. SUNY Binghamton 1983 (Mathematics), M.S. Tehran University 1975, (Mechanical Engineering), Thermodynamics, Quantum Computation, Applied Mathematics
Hyun Soon Lee	Leading Professor , Ph.D. SUNY Stony Brook (Heat Transfer), Energy, Engine Technologies, and Thermal Sciences
Young Tae Kim	Adjunct Professor , Ph.D. 1986, University of New Mexico (Multivariable Control of Multi-link Robot Manipulators), Dynamics and Controls
Sangwan Joo	Adjunct Professor , Ph.D. 1998, Osaka University, Japan (Robotics), Modeling and Measurement for The Joint Stiffness of Robot Manipulator, Passive Compliant Tool Design and Its Analysis