Message from the Dean

Dear alumni, colleagues at our partner universities, teachers in high schools, and friends,

With the beginning of a new academic year in Japan, I am pleased to send you the first issue of this newsletter from the School of Engineering. We are proud of the abundance of world-class research that has been achieved by our staff and students over the years and are continuing to be at the forefront of various innovative engineering fields. Toward the globalization of higher education, we are seeking to strengthen the rapport with our alumni and friends all over the world and hope that this biannual newsletter can act as a messenger to keep you informed of what is going on at our school and make it possible for you to follow our progress. We also hope that you will offer us your valuable opinions and suggestions and introduce us to your friends and acquaintances who share our ideas and spirit of benefiting all humankind through progress in science and technology. We warmly welcome your recommendations of prospective young people who may be interested in pursuing study opportunities at our school. Please join us in our efforts to reach new heights of excellence.

Hiroshi Kanai, Dean and Professor

Innovation of Engineering Education

- A six-year (four-year undergraduate plus two-year master course) engineering education program is initiated to enhance professional engineering education based on the Students’ Study Evaluation Standard, which was recently established by our school, as the first such standard established in the national universities in Japan. The aim of this new study system is to strengthen the training of the talented researchers who can potentially play an active role at the forefront of research in the world, as well as top technical personnel who can take leading role in advanced industry in the future.

  - Two “National Leading Graduate Schools” selected by MEXT:
    - Science of global safety  Multi-dimension materials science
  - University ranking by Japanese high school teachers (2006-2013): TU 1st rank
  - University ranking by Japanese business people (2013): TU 1st rank

Overview of Research

Since its establishment in 1907, “Research First” has been one of the three fundamental principles of Tohoku University. This has enabled it to maintain a high level of research for over 100 years. Engineering is one of the most active research fields at Tohoku University and the School of Engineering has established a reputation as vibrant center of high-quality research and development at various world leading new frontiers.

- Academic Ranking of World Universities (Shanghai Jiao Tong University) Engineering & Computer Sciences (2013): TU 24th in the world, 1st in Asia
- Annual Research Funding (2013): 3,659,481,000 JPY, 25.2% of the total revenue

Grants-in-aid for Scientific Research: 379, Commissioned Research: 328

Admission Information of International Degree Programs

- International Doctoral Program in Engineering, Information Sciences , Environmental Studies and Biomedical Engineering
- International Mechanical and Aerospace Engineering Course (IMAC-G, IMAC-U) Bachelor, Master, Doctoral course
  - http://g30.eng.tohoku.ac.jp/imac/
- International Materials Science and Engineering Master course (MSE)
  - http://g30.eng.tohoku.ac.jp/mse/
- Data as of Nov. 2013
Study in Japan! Study in Tohoku University!

Realize your dream in Aobayama

Degree Programs in English for International Students

International Doctoral Program in Engineering, Information Sciences, Environmental Studies and Biomedical Engineering

Contact: eng-im@bureau.tohoku.ac.jp
Application Deadline: May 30
Course starts: Oct. 1

This international doctoral program has been implemented by the School of Engineering, School of Information Sciences, School of Environmental Studies and School of Biomedical Engineering. Many departments are involved in conducting research in a wide range of interdisciplinary fields. The course comprises 3 groups: Group A, Life Science, Group B, Green Innovation, and Group C, Safety and Security.

International Materials Science and Engineering Course (IMSE)

http://g30eng.tohoku.ac.jp/imse/
Contact: eng-im@bureau.tohoku.ac.jp
Application Deadline: Jan. 8
Course starts: Sep. 29

The International Materials Science and Engineering Master Course (IMSE) is a program offered for graduate students in materials science and engineering. Three departments, i.e., the Department of Metallurgy, Department of Materials Science and Department of Materials Processing, are participating in this program. Institutes related to IMSE include the Institute for Materials Research (IMR), Institute of Multidisciplinary Research for Advanced Materials (IMRAM). An International Doctoral Program of Materials Science is also provided in the departments to enable students to pursue a longer perspective on their research.

International Mechanical and Aerospace Engineering Course (IMAC)

Undergraduate Course (IMAC-U): Bachelor
Graduate Course (IMAC-G): Master, Doctor

http://g30eng.tohoku.ac.jp/imac/

The International Mechanical and Aerospace Engineering Course (IMAC) is a fully English taught engineering degree program organized by the Division of Mechanical Engineering. IMAC pursues the creation of science and technology which enrich peoples’ lives, and promote borderless higher education through exchange with students from various countries. Prospective students will have excellent opportunities to study fundamental engineering and conduct cutting-edge research, as well as heighten their international sense, under the supervision of world-leading professors.

IMAC-U (Bachelor Degree)
The students studying in this undergraduate course will belong to one of the six courses listed below:
- Course of Mechanical Systems and Design
- Course of Nanomechanics
- Course of Aerospace Engineering
- Course of Quantum Science and Energy Engineering
- Course of Bioengineering andRobot Systems
- Course of Environment and Energy Engineering

Application Deadline: May 30
Course Starts: Oct. 1
Contact: imac-u@mech.tohoku.ac.jp

IMAC-G (Master, Doctoral Degree)
The students studying in this graduate course will belong to one of the five departments listed below:
- Department of Mechanical Systems and Design
- Department of Nanomechanics
- Department of Aerospace Engineering
- Department of Bioengineering and Robotics
- Department of Quantum Science and Energy Engineering

Application Deadline: Early Jan.
Course Starts: Oct. 1
Contact: imac-g@mech.tohoku.ac.jp

International students can also apply (in English) to the degree programs which most Japanese students take. Please find details from the web version of the newsletter at http://newsletter.eng.tohoku.ac.jp/. Before application, please contact the expected professor by email.

Detailed web version: http://newsletter.eng.tohoku.ac.jp/
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