Graduate School of Science and Technology of Tsukuba Superiture of CREAL Contractions of the CREAL CONTRACT CONTRACTOR OF THE CONTRACT CO Rullidschilmay education for our students. Broader Wouthoritons and strengthen wour capabilities Education Objective seatures the goal to address one's purpose's ad to meetand ordered. I see the deed to the left of the deed to the left of a double of the left of the deed to the deed to the left of the deed to t hister tener and to be able to right age regard and project and take a position of Out Marter Protecting allows and the set of a charge a broad provided compensed at Data at Program and the Estables students to account *Sking alfolanes

General Information for International Students

You can choice Research Student, or you can take the entrance examination directly and become a regular student in our Program.

- International Student Admission Guide for Non-Degree Research Student https://www.tsukuba.ac.jp/en/academics/international-research-students/
- Graduate Admission Guide for Regular Student https://eng.ap-graduate.tsukuba.ac.jp/ See "Graduate School of Science and Technology" and "Degree Programs in Systems and



Admissions Information

The latest admissions information is available on website.

- Graduate Admission Guide for Degree Programs in Systems and Information Engineering https://eng.ap-graduate.tsukuba.ac.ip/course/sie/

We generally conduct:

- Special Selection Process for Recommended Applicants (July Selection)
- General Selection Process / Special Selection Process for Working Individuals (August Selection, and January to February Selection)

Our program has been selected as one of the Japanese Government (MEXT) Scholarships by university recommendations named "International Resilience Engineering Program powered by Industry-Academia Collaborated PBL".

- Application Guidelines https://www.sie.tsukuba.ac.jp/eng/visitor/exam/inter-student/



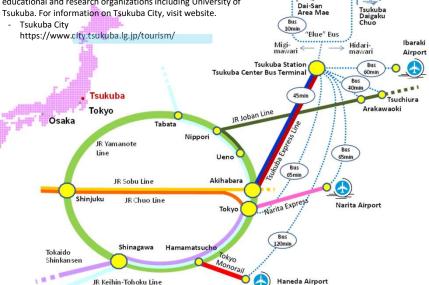






Location and Access

University of Tsukuba is located in the Tsukuba Science City, 60 km northeast of Tokyo. Tsukuba Science City has about 60 educational and research organizations including University of



Contact Information

Program Office

3F300, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8573, Japan phone: +81-29-853-5059 fax: +81-29-853-5207

Public Information Committee of EME: kouhou@kz.tsukuba.ac.jp https://www.eme.tsukuba.ac.jp/

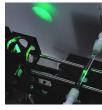


Primary energy sources including fossil fuels such as coal, petroleum and natural gas, as well as nuclear power and natural energy are used to operate the electrical devices, automobiles and suchlike that we depend on, and the form of the energy is changed until it eventually becomes heat. The energy-conversion technology which transforms one sort of energy into another is vitally important for effectively utilizing limited energy resources to establish a sustainable society. Our research group studies and develops environment-friendly energy-conversion technologies and networks.











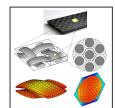
Message from the Program Leader

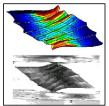
DREAMS AWAIT YOUR CHALLENGE.

To potential students in Engineering Mechanics and Energy

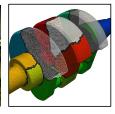
Our research group studies durability evaluation technology and advanced simulation technology for structures and materials in mechanical engineering fields. We develop solutions on micro and macro scales using experimental, theoretical and numerical simulation methods. We have research programs on (1) high-temperature durability evaluation technology for polymer-type carbon-fiber reinforcement materials and homogenization analysis for thermal problems; (2) the destruction mechanism for bonded joints at leading edges and non-destructive evaluation methods using electromagnetism; (3) durability measurement and analysis methods for steel and elastomer materials in hightemperature power plants.







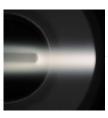


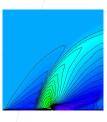


Space Exploration Engineering (Group leader: Prof. Makihito Nishioka)

Our research group studies the engineering theory and technology necessary for expanding the frontiers of space. Utilizing theories of combustion mechanism, improvement in performance of new materials, use of plasma, and physical phenomena at extremely low temperatures, we conduct applied research in advanced engineering technologies such as the development of next-generation aircraft and rocket engines, small-scale satellites, atmospheric re-entry craft, thermal control devices, planetary exploration rovers, experiments on board the ISS, and so on. This work is done with the collaboration of neighboring research institutes, such as JAXA and AIST. Our wide-ranging interests are always energetically seeking new interdisciplinary research fields such as preserving the Earth's environment, medical technology in space, and space art.









Prof. Hideaki Monji, Program Leader of Engineering Mechanics and Energy

Our Degree Program provides interdisciplinary education and research covering a wide range of engineering and scientific fields. Our program of study helps students acquire a comprehensive picture of our highly specialized society from scientific and technological perspectives, and helps them find optimal solutions towards a sustainable world. Moreover, our faculty members offer state-of-the-art research topics such as ones shown in this brochure, and students can develop in-depth expertise through their research project. Please visit our website for more details, and contact our faculty members related to your areas of interest if you are considering joining us. We look forward to seeing you on our lush green campus located in the midst of Tsukuba Science City.



The threats of earthquakes, tsunamis, fires, heavy rain and suchlike pose grave dangers to our lives and cause great damage. In addition to these sudden occurrences, serious damage may also be caused by the deterioration of materials, and long-term environmental disturbances. This group conducts research to develop advanced engineering technology to control disasters, and disaster-prevention systems, by understanding the effects of these disturbances on the ground, lifelines, buildings and bridges and by studying the causes of damage in detail.



