Admissions Information

The latest admissions information is available on our website. TOEIC or TOEFL score is used for the evaluation of English proficiency. An undergraduate academic transcript is necessary. There is an oral examination on topics in mathematics and physics. More details of the examination can be found on the departmental website.

General Information for International Students

The International Student Center, University of Tsukuba has prepared a guidebook entitled "Enrollment Guidebook for International Students", which provides comprehensive information for international students who wish to apply to our university. The guidebook contains necessary information for application for different student categories, such as regular students, research students, credited auditors, etc. Please visit http://www.intersc.tsukuba.ac.jp/

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 the University of Tsukuba, Tsukuba University of Technology, and Tsukuba Gakuin University, in 2,700 hectare-city area.

For information on Tsukuba City and Tsukuba Science City, please visit the following sites. - Tsukuba City

Graduate School of Systems and J

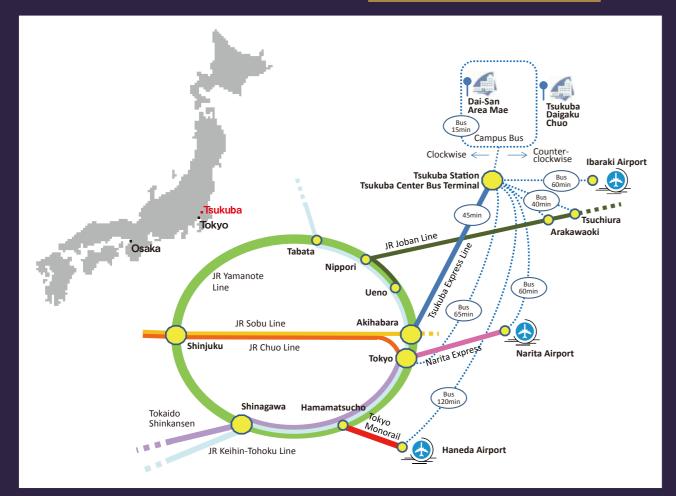
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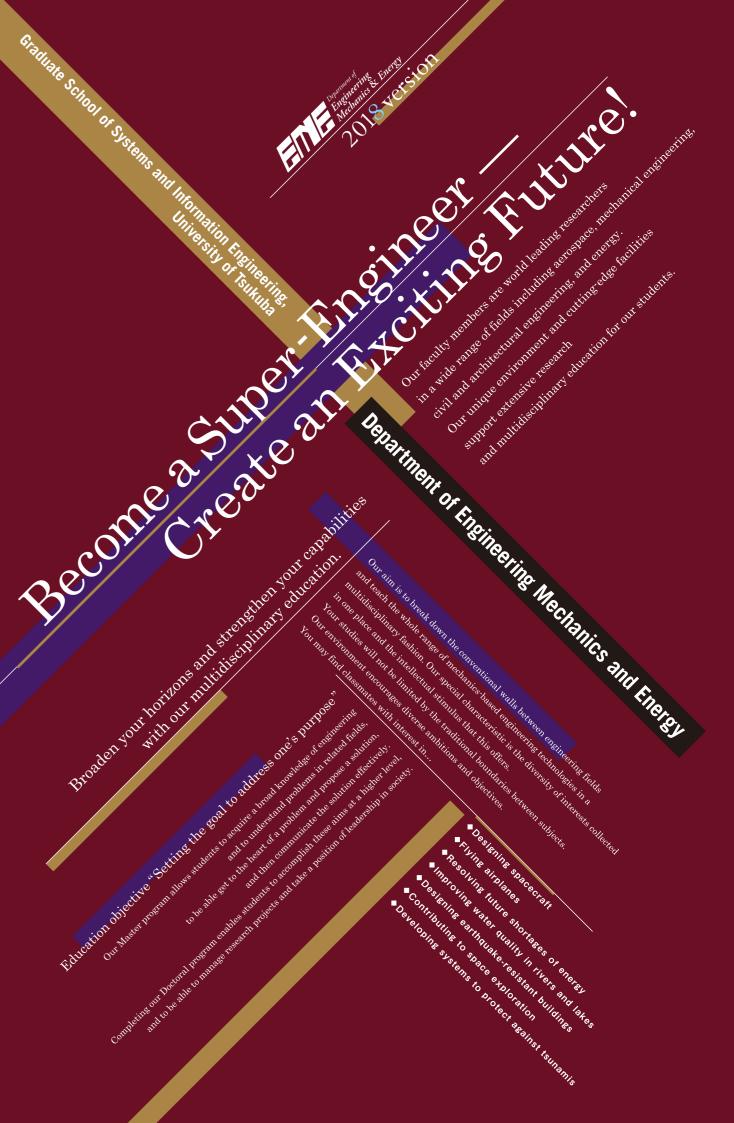
Cooperative Graduate School Program

We have links with a number of research institutes in Tsukuba Science City and Tokai village. We employ researchers from Japan Aerospace Exploration Agency (JAXA), Advanced Industrial Science and Technology (AIST), Public Works Research Institute (PWRI), and Japan Atomic Energy Agency (JAEA) as professors and associate professors. Our students have opportunity to have their work supervised by the researchers from leading edge research facilities.



Contact address

If you have questions, please feel free to contact us Department of Engineering Mechanics and Energy, Graduate School of Systems and Information Engineering, University of Tsukuba 1-1-1 Tennodai, Tsukuba-city, 305-8573, Japan Phone: +81-29-853-5059 (Department Office), FAX:+81-29-853-5207



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.

Energy and Environmentology (Representative : Professor Hideaki Monji)









Space Exploration Engineering

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.



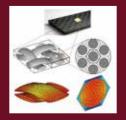
Prof. Satoshi Takewaka, Chair, Department of Engineering Mechanics and Energy E-mail:takewaka@kz.tsukuba.ac.jp

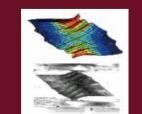
Our department provides interdisciplinary education and carries out research covering a wide range of engineering and scientific fields. Our highly integrated course of study helps students acquire a comprehensive picture of available solutions for a sustainable world based on the efficient use of resources. We encourage you to visit our webpage and contact our faculty members for more details about study and research in your areas of interest. We also warmly welcome you to visit us in Tsukuba for further consultation and to see for yourself what life is like in Science City in harmony with its natural environment. We have special admission procedures catering for students from outside Japan and for people who are already working.

Message from the Chair

DREAMS AWAIT YOUR CHALLENGE

To potential students in Engineering Mechanics and Energy







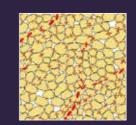


Our research group studies durability evaluation technology and advanced simulation technology for structures and materials in mechanical engineering fields. We develop solutions on micro and macro scales using experimental, theoretical and numerical simulation methods. We have research programs on (1) 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 high-temperature power plants

Multi-Scale Solid Materials Engineering

(Representative: Professor Masamichi Kawai)

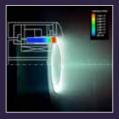




The threats of earthquakes, tsunamis, fires, heavy rain and suchlike pose grave dangers to our lives and cause great damage. In addition to these sudden occurrences, serious damage may also be caused by the deterioration of materials, and long-term environmental disturbances. This group conducts research 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.

(Representative: Professor Makihito Nishioka)









Disaster Control (Representative: Professor Yuki Sakai)