## Admission

### Application procedure for regular applicants

For regular applicants, the Department of Precision Engineering offers two types of selection both for the master's and PhD programs, which are regular selection based on written exams and document-based selection.

Applicants for these selections must obtain and submit the application form to the *Graduate School of Engineering Office*.

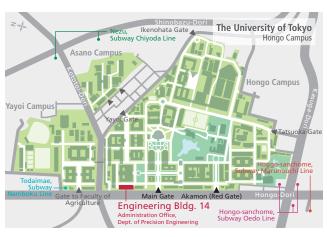
# Application procedure for MEXT (Monbukagakusho) scholarship applicants

The applications from *MEXT scholarship* applicants are directly handled by the *Graduate School of Engineering Office*, not by the *Department of Precision Engineering*.

### For further information:

Admissions Information, Department of Precision Engineering: http://www.pe.t.u-tokyo.ac.jp/admission/index\_e.html

Admissions Information, School of Engineering: http://www.t.u-tokyo.ac.jp/etpage/international\_applicants/



### Administration Office Department of Precision Engineering, School of Engineering, The University of Tokyo

Hongo 7-3-1, Bunkyo, Tokyo 113-8656, JAPAN Phone: +81(0)-3-5841-6445 Fax: +81(0)-3-5841-8556

Website: http://www.pe.t.u-tokyo.ac.jp

# Department of Precision Engineering

School of Engineering, The University of Tokyo

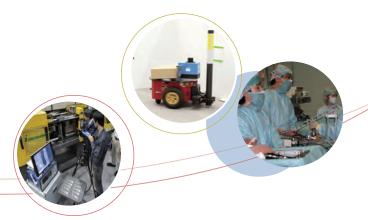
2014



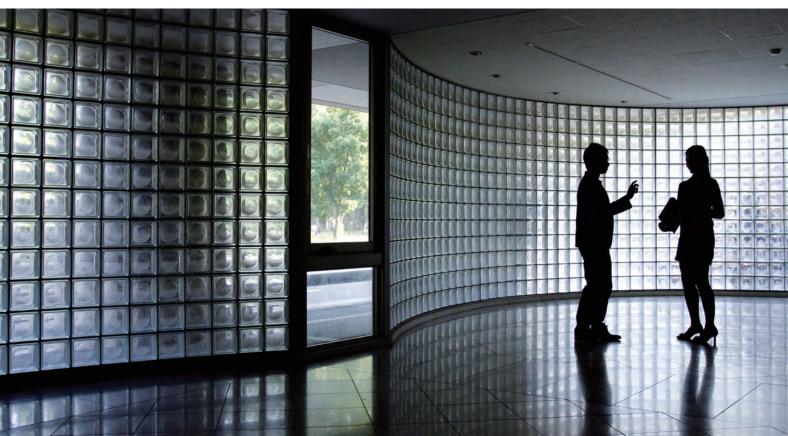


# Be precise, be flexible





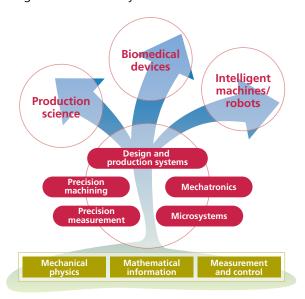
The Department of Precision Engineering, The University of Tokyo has a long and remarkable history since 1886. Leading cutting-edge education and research related to precision engineering are carried out, while international academics consisting of students and researchers are brought together and honed to create an expanding network of sought-after experts.



Mission

## Curriculum

Precision Engineering discusses methodologies on the approach to targets rather than the physical objects themselves. The department handles an extensive range of advanced technology from information devices to manufacturing technology and services in order to create a sustainable society based on harmony between man, resources, and the environment. Founded on the basic disciplines of mechanical physics, mathematical information, and measurement and control, the department promotes education and research on production science and the synthesis of products and services, as well as intelligent and robotic systems and biomedical devices.



### Research fields:

- 1) The development of fundamental technology for production science, such as precision measurement, precision machining, microsystems, biomedical devices, mechatronics, and design and production systems.
- 2) Research into methodologies on the synthesis of intelligent machines, information and knowledge systematization for products, services, and their production processes.
- 3) Application of the above to manufacturing, biomedical fields, and service systems.

Sensing technology	C T
Optical measurement	S. Takahashi
Coordinate metrology	K. Takamasu
Biomedical precision engineering	I. Sakuma
Medical precision engineering	
Computer assisted surgery and therapy	E. Kobayashi Y. Jimbo
Neuroengineering	r. Jirribo K. Kotani
Biosignal measurement and analysis  Fabrication technology	N. NOLATII
Polymer processing	H. Yokoi
System integration and packaging	T. Suga
Advances in micromachining	n. suga M. Kunieda
Ultra-precision machining	H. Mimura
Jointing manufacturing	Y. Kajihara
Microsystems	r. Kajiriara
Applied microfluidic systems	T. Fujii
Applied optical microsystems	E. Higurashi
Nano-micro mechanical systems K. Takamasu, T. Fujii, E. Higur	
Robotics and mechatronics	
Electromechanical control systems	A. Yamamoto
Mechatronics for human and engineered environments	H. Hosaka
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Cooperative artificial systems	H. Asama
	H. Asama J. Ota
Cooperative artificial systems	
Cooperative artificial systems Dynamic agent	J. Ota
Cooperative artificial systems Dynamic agent Advanced robotics	J. Ota A. Yamashita
Cooperative artificial systems Dynamic agent Advanced robotics Additive manufacturing science Design and production systems Service engineering	J. Ota A. Yamashita
Cooperative artificial systems Dynamic agent Advanced robotics Additive manufacturing science Design and production systems Service engineering Society and design methodology	J. Ota A. Yamashita T. Niino T. Hara Y. Umeda
Cooperative artificial systems Dynamic agent Advanced robotics Additive manufacturing science Design and production systems Service engineering Society and design methodology Geometric modeling	J. Ota A. Yamashita T. Niino T. Hara Y. Umeda H. Suzuki
Cooperative artificial systems Dynamic agent Advanced robotics Additive manufacturing science Design and production systems Service engineering Society and design methodology Geometric modeling Geometry data processing	J. Ota A. Yamashita T. Niino T. Hara Y. Umeda
Cooperative artificial systems Dynamic agent Advanced robotics Additive manufacturing science Design and production systems Service engineering Society and design methodology Geometric modeling Geometry data processing Practice and project based learning	J. Ota A. Yamashita T. Niino T. Hara Y. Umeda H. Suzuki Y. Ohtake
Cooperative artificial systems Dynamic agent Advanced robotics Additive manufacturing science  Design and production systems Service engineering Society and design methodology Geometric modeling Geometry data processing  Practice and project based learning Prototyping technique for nano/micro systems I	J. Ota A. Yamashita T. Niino  T. Hara Y. Umeda H. Suzuki Y. Ohtake  H. Kawakatsu
Cooperative artificial systems Dynamic agent Advanced robotics Additive manufacturing science  Design and production systems Service engineering Society and design methodology Geometric modeling Geometry data processing  Practice and project based learning Prototyping technique for nano/micro systems I Prototyping technique for nano/micro systems II	J. Ota A. Yamashita T. Niino T. Hara Y. Umeda H. Suzuki Y. Ohtake
Cooperative artificial systems Dynamic agent Advanced robotics Additive manufacturing science  Design and production systems Service engineering Society and design methodology Geometric modeling Geometry data processing  Practice and project based learning Prototyping technique for nano/micro systems I	J. Ota A. Yamashita T. Niino  T. Hara Y. Umeda H. Suzuki Y. Ohtake  H. Kawakatsu



Practice in international workshop on precision engineering: Practice classes acknowledge credits for international educational activities



Advanced lectures on precision engineering I–V





# **Faculty members**





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