

The University of Osaka, Graduate School of Engineering Doctoral Degree Programs Conducted in English

[Enrollment in October 2027]

<For Current GSE Students>

For Students who are expected to obtain a master's degree in one of the
following programs in September 2027

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https://www.eng.osaka-u.ac.jp/en/entrance/f_admissions/

Industrial Biotechnology Global Leadership Program Based on Advanced Science and Technology

1. Program Summary

The aim of this program is to expose young scientists to state-of-the-art research techniques and in-depth knowledge of advanced biotechnology, chemistry, physics and bioengineering, so that they may harness the potential of biotechnology applicable to Japanese industries as well as academia.

2. Requirements for the Completion of the Course and Obtaining the Degree

(1) Requirements for completion of the course:

Enrolment for the prescribed period and completion of the following.

- completion of Seminar on Frontier Research Proposal to acquire two compulsory credits
- completion of Courses of Frontier Biotechnology Exercises and Frontier Biotechnology Seminars to acquire a minimum of four credits
- successful defense of doctoral dissertation and passing of the final examination of the program.
- Improving Japanese skill is also required during the course.

For details, see the course handbook distributed at the time of enrolment.

(2) Degree: Doctor of Philosophy in Engineering

3. Admission Quota

Max. 20

Chemical Science Course

1. Program Summary

The present Chemical Science Course (CSC) at the Graduate School of Engineering offers postgraduate students for the Doctoral degree covering all aspects of “Chemistry”, the center of science. “Chemistry” provides a broad spectrum of information and provides the indispensable basis that underlines our materials society, and keys for the future of society.

2. Requirements for the Completion of the Course and Obtaining the Degree

(1) Requirements for completion of the program:

Enrolment for the prescribed period and completion of the following.

- completion of one compulsory course of Research Proposal Seminar Frontier Applied Chemistry 1-4 for a total of no less than 4 credits
- satisfactory performance in the mid-term review of the Special Research and successful defense of the doctoral dissertation
- passing of the final examination of the program.

For details, see the course handbook distributed at the time of enrolment.

(2) Degree: Doctor of Philosophy in Engineering

3. Admission Quota

A few

International Priority Graduate Program on Applied and Engineering Physics

1. Program Summary

The objective of this program is to equip new generation of young scientists with fundamental knowledge and cutting-edge research skills in Applied and Engineering Physics. By elucidating the fundamental physical, chemical and biological properties of materials, and designing materials with novel functions, we open a new way to the development of nanotechnology, photon technology, and biomedical engineering. We also aim to develop and produce international collaboration through the creation of an intellectual human resources network. Furthermore, by utilizing interdisciplinary organizations and international networks, we contribute to other socially important fields such as new industries, environment, and energy problems.

2. Requirements for the Completion of the Course and Obtaining the Degree

(1) Requirements for completion of the course:

Enrolment for the prescribed period and completion of the following.

- earn no less than six total academic credits
- completion of the Special Research
- defense the doctoral dissertation and passing the final examination of the course

For details, see the course handbook distributed at the time of enrolment.

(2) Degree: Doctor of Philosophy in Engineering

3. Admission Quota

A few

International Program of Materials and Manufacturing Science

1. Program Summary

The aim of this program is to educate international students to become advanced scientists or engineers of the new generation with basic knowledge and state-of-the-art research skills related to materials and manufacturing science. This program fosters advanced engineers and scientists who have a sophisticated perception of the engineering flow, from materials development to product manufacture.

2. Requirements for the Completion of Course and Obtaining the Degree

(1) Requirements for completion of the course:

Enrolment for the prescribed period and completion of the following.

- completion of lectures and seminars corresponding to no less than 4 credits
- completion of Special Research and submission and defense of the doctoral thesis
- passing the final examination of the course.

For details, see the course handbook distributed at the time of enrolment.

(2) Degree: Doctor of Philosophy in Engineering

3. Admission Quota

A few

Global Science and Engineering Course on Electrical, Electronic and Infocommunications Engineering

1. Program Summary

The aim of this program is to educate students to become scientists or engineers of the new generation with basic knowledge and state-of-the-art research skills necessary for electronics, ubiquitous networking, nanotechnology, and electric power/energy. Through these educational and research activities, we seek to establish a safe and secure society, and an affluent, prosperous, sustainable, and human-friendly world.

2. Requirements for the Completion of Course and Obtaining the Degree

(1) Requirements:

Enrolment for the prescribed period and completion of the following

- completion of lectures and seminars corresponding to no less than 4 credits
- completion of Special Research and submission and defense of doctoral dissertation
- passing the final examination of the course.

For details, see the course handbook distributed at the time of enrolment.

(2) Degree: Doctor of Philosophy in Engineering

3. Admission Quota

A few

International Program of Maritime and Urban Engineering

1. Program Summary

The aim of this program is to educate students to become young scientists of the new generation with basic knowledge and state-of-the-art research skills necessary for; disaster prevention, protection of marine and urban environments; development of new energy and energy-saving technologies; and for the realization of a synthesized scheme of space, ocean and land.

2. Requirements for the Completion of the Course and Obtaining the Degree

(1) Requirements for completion of the program:

Enrolment for the prescribed period and completion of the following.

- completion of lectures and seminars corresponding to no less than 6 credits
- satisfactory performance in defense of the doctoral dissertation
- passing of Qualification Tests of the program.

For details, see the course handbook distributed at the time of enrolment.

(2) Degree: Doctor of Philosophy in Engineering

3. Admission Quota

A few

■ Procedures and General Descriptions

1. Application Requirements (The following items are common to all programs.)

- (1) Educational background:
Those who are expected to complete one of the following master's degree programs in September 30, 2027.
 - Industrial Biotechnology Global Leadership Program Based on Advanced Science and Technology
 - Chemical Science Course
 - International Priority Graduate Program on Applied and Engineering Physics
 - International Program of Materials and Manufacturing Science
 - Global Science and Engineering Course on Electrical, Electronic and Infocommunications Engineering
 - International Program of Maritime and Urban Engineering
- (2) Health: Applicants must be physically and mentally healthy enough to pursue study at university.

2. Application Procedures

Every applicant must find, well in advance, a supervisor suitable for the research field in which the applicant is interested and contact him/her by email to confirm whether the field is adequately fitting to his/her laboratory.

[Laboratories at the GSE] https://www.eng.osaka-u.ac.jp/department/?post_type=en

※Applicants who plan to proceed to a doctoral degree program different from their current program are requested to contact Admission Section (iso-staff@eng.osaka-u.ac.jp) no later than April 2, 2027.

- (1) Application Period
April 19 to April 30, 2027 3:00 p.m. (Japan time)

The application materials must be submitted to the Admission Section **by post or by hand**, to be reached strictly no later than the last day of application period above.

- (2) Address for Submissions
Admission Section, Student Affairs Division,
Graduate School of Engineering, the University of Osaka
U1M bldg., 1F, 2 - 1, Yamadaoka, Suita,
Osaka 565-0871, JAPAN
Tel: +81-6-6879-7228

【Office Hours】 *If you bring your own
Weekday 9:30 a.m. to 3:00 p.m. (excluding 11:30 a.m. ~ 12:30 p.m.)

- (3) Application Materials

Materials	Details
(1) Application Form	• Fill out the prescribed “Application for Admission” form. • A photograph (4cm×3cm) should be affixed to the first page. It should be taken within the last 3 months and should show the upper part of the body, without hat, in a frontal pose.

(2) Admission Ticket for an Examination and Photo Card	• Applicant's name must be written on the prescribed form. • Two photographs (4cm×3cm) should be affixed. It should be taken within the last 3 months and should show the upper part of the body, without hat, in a frontal pose. ■ If the photo is unclear, the face is turned sideways, or the image has been altered, we may ask you to resubmit an appropriate photo.
(3) Copy of applicant's Residence Card (A4 size)	• It must specify applicant's residence status, period of stay, and current address.

Notes:

- (1) Admission Ticket for an Examination will be sent to the applicant.
- (2) The application fee is not required.
- (3) Once submitted, the application will not be returned.

3. Selection and Announcement of the Results

Screening is to be executed in the following 2 categories A and B depending on each program.

【Category A】

*Chemical Science Course

- (1) Screening will be conducted by reviewing the application materials and documents in early June 2027. An interview or academic examination might be conducted if deemed necessary.
- (2) The examinee's number of successful applicants will be posted on the Graduate School Admissions page (the following URL) **by the end of June, 2027.**
<https://www.eng.osaka-u.ac.jp/en/entrance/f_admissions/>

【Category B】

*Industrial Biotechnology Global Leadership Program Based on Advanced Science and Technology
 *International Priority Graduate Program on Applied and Engineering Physics
 *International Program of Materials and Manufacturing Science
 *Global Science and Engineering Course on Electrical, Electronic and Infocommunications Engineering
 *International Program of Maritime and Urban Engineering

- (1) Matriculates will be selected from the applicants by reviewing the application materials and documents submitted by the applicants in early June 2027. In addition, oral examination including an interview concerning the master's thesis and/or academic examination will be conducted from late July to the end of August.
 *International Priority Graduate Program on Applied and Engineering Physics will hold examinations from late June. Please ask your prospective supervisor for the detailed schedule.
- (2) The examinee's number of successful applicants will be posted on the Graduate School Admissions page (the following URL) **by the end of August 2027**
 <https://www.eng.osaka-u.ac.jp/en/entrance/f_admissions/>

4. Tuition

Tuition: 535,800 JPY/year

Notes:

- (1) The bank transfer fee is to be paid by the applicant.
- (2) The amount of tuition is subject to change. Amendments to fees will be applied from the date of amendment.
- (3) Tuition is waived for the MEXT Scholarship awardees.

5. Semester Starting Date

October 1, 2027

*Classes may start at a later date.

6. Notes for Applicants

- (1) Application with incomplete documents at the time of the submission deadline will not be accepted.
- (2) If any false information is found in the application documents, the application will be canceled even after it has been accepted. Furthermore, admission will be revoked even after enrolment has been granted.
- (3) **Once submitted, any documents cannot be changed, returned, replaced or amended under any circumstances.**
- (4) Applicants who need assistance due to physical disabilities when taking exams and/or in taking courses of study after enrollment in the University of Osaka should consult the Admission Section at the time of application.
We will inform you regarding the necessary procedure. UOsaka will decide arrangements based on your needs.
- (5) For any questions concerning the application procedure, please contact the Admission Section freely.
- (6) On-campus parking spaces for cars and motorcycles are not available on the day of examination. Use of public transportation is encouraged instead.

7. Policy on Handling Personal Information

- (1) Names, addresses, and other personal information obtained through the application procedure will be used in the Entrance Examination Process, in the Announcement of the List of Successful Applicants, in the Admission Procedures, and in the distribution of program leaflets. For those admitted into the University of Osaka, personal information will also be used in academic-related matters (such as keeping academic and registration records), in student support matters (such as health care management, school fee remissions, scholarship applications, career support, etc.), and in school fee management.
- (2) Information obtained through the entrance examination will be used in statistical analysis of examination results, in research on admission methods and in student support matters (such as scholarship application etc.)
- (3) We may outsource the part of the enrollment process to a subcontractor.
In this case, we will execute a contract with the subcontractor to ensure that personal information is handled appropriately and will provide them all or part of your personal information submitted at the time of application.

8. Security Export Control

In accordance with Japan's "Foreign Exchange and Foreign Trade Act" (hereinafter referred to as the "Act"), The University of Osaka has established the "The University of Osaka Security Export Control Regulations" and rigorously implements security export control for the export of goods and the transfer of technology (including accepting foreigners).

Please be aware that applicants who fall under any of the conditions set out in the Act may not receive permission to enroll at the university or may have their education or research restricted after their enrollment.

For more information, please refer to the website.

(Japanese) https://www.osaka-u.ac.jp/ja/research/secur_exp/outline

(English) https://www.osaka-u.ac.jp/en/research/secur_exp/outline

9. Inquiries and Further Information

Admission Section
Student Affairs Division
Graduate School of Engineering
The University of Osaka
2 - 1, Yamadaoka, Suita,
Osaka 565-0871, JAPAN
E-mail: iso-staff@eng.osaka-u.ac.jp