

Kyushu University Program for Leading Graduate Schools Application Guidelines for the “Advanced Graduate Course on Molecular Systems for Devices”

For applicants wishing to enroll in the First Year of the Master’s Course in April 2018

1. Advanced Graduate Course on Molecular Systems for Devices

The “Program for Leading Graduate Schools” aims to equip outstanding students with creativity and a broad perspective in order to nurture them to become leaders capable of contributing broadly on a global scale across the fields of industry, academia, and government.

Kyushu University’s “Development of Global Research Leaders in Molecular Systems for Devices and Establishment of an International Education and Research Center” project was approved under this governmental program, and the “Advanced Graduate Course on Molecular Systems for Devices” was established accordingly as an integrated Master’s Degree and Doctoral Degree program.

Through a five-year integrated education program, this course aims to nurture leaders with the ability to think matters through with “rich sensitivity” and “solid academic knowledge based on science” in order to lead the field of “science of molecular systems for devices”, which is the core of Japan’s next-generation science and technology.

2. Type of students we are looking for

The ultimate aim of this course is to nurture global leaders with the capabilities to generate core next-generation science and technology leading to a rise in new industries through research in the field of science of molecular systems for devices*, which is based on cutting-edge molecular materials.

For this reason, such leaders require many skills, including R&D expertise, passion for research, research management ability, innovative thinking ability, leadership skills, and communication skills.

In order to thoroughly acquire these skills, it is therefore essential that students enrolled in the course have not only fundamental academic abilities but also the determination and perseverance to pursue their studies vigorously without giving up in the face of frustration or disappointment, standing back up time after time, as well as the strength of spirit to think matters through.

What is “Molecular Systems for Devices”?

Molecular Systems for Devices is an academic field that seeks to clarify the connection between molecular function and device function through the fusion of conventional chemistry-based academic fields and mainly electronics-based academic fields, as well as systemize devices from individual molecular designs with the aim of systemizing molecular functions and furthermore clarifying the positioning of devices within society.

3. Eligibility

Applicants must be students who have been accepted for enrollment in the First Year of the Master’s Course for any of the following Kyushu University graduate schools/departments on April 1, 2018.

Graduate School of Engineering	Department of Chemistry and Biochemistry, Department of Materials Physics and Chemistry, Department of Chemical Systems and Engineering, Department of Materials Process Engineering, Department of Mechanical Engineering, and Department of Hydrogen Energy Systems
Graduate School of Science	Department of Chemistry
Graduate School of Information Science and Electrical Engineering	Department of Electrical and Electronic Engineering

(Points to note when submitting an application)

- Applicants may not apply concurrently for other programs for leading graduate schools.
- Students who intend to seek employment with companies after completing their Master’s degree may not enrol in the course.
- Students who are accepted into this course and who subsequently apply and are accepted for a Japan Society for the Promotion of Science (JSPS) Research Fellowship for Young Scientists must commit to maintaining their enrollment in this course.

4. Course starting date: Sunday, April 1, 2018

5. Capacity: 9

6. Application Forms

- (1) Application Form (Form 1-1)
- (2) Statement of Purpose (Form 1-2)
- (3) Reference Letter (Form 1-3)

*Applicants should submit reference letters from individuals who are familiar with the applicant's specialization (Academic Supervisor, etc.). Reference Letter forms should be completed in accordance with the instructions provided and sealed in an envelope for submission.

- (4) Copy of English language qualification examination score (TOEIC or TOEFL)

7. English Language Qualification Examination

Applicants should take either the TOEIC Public Test (conducted in Japan or Korea) or TOEFL iBT examination in advance.

- Score certificates must have a facial photograph of the applicant attached.
- TOEIC and/or TOEFL score certificates must have been issued on or after January 1, 2016.
- Scores for the following examinations will not be accepted.
TOEIC IP, College TOEIC, TOEFL ITP, or any other examinations conducted under institutional (testing) programs
TOEIC Speaking and Writing, TOEIC Bridge

8. Acceptance of Application Documents

- (1) Acceptance of application documents (in person or by postal mail)

From 9:00 am on Thursday, January 25 until 5:00 pm on ~~Friday~~ **Monday**, March ~~2~~**19**, 2018

(Submissions by postal mail must also be received within this period)

- (2) Addresses for submissions

(For submissions in person)

Administration Office,
Education Center for Global Leaders in Molecular Systems for Devices
Ito Campus: Room 627, 6F, West Zone 2

(For submissions by postal mail)

Administration Office,
Education Center for Global Leaders in Molecular Systems for Devices
W2-627, 744 Motooka, Nishi-ku, Fukuoka, 819-0395, Japan

*For submissions by postal mail, please write "Course Application Documents" **in red** on the front of the envelope.

(3) Points to note

- Applications cannot be accepted unless all the requisite application documents are correctly completed and submitted.
 - As a general rule, the content of applications cannot be changed after the application has been submitted.
 - Documents submitted at the time of application will not be returned.

(4) Cooperation of Academic Supervisors with the course

It is essential that the Academic Supervisors of students enrolled in this course provide their cooperation for the course. In concrete terms, they are required to attend meetings related to the course, provide cooperation for laboratory rotations; attend student presentations of research plans, Seminar of Molecular Systems for Devices (QE: Comprehensive Examination, Group Research Proposal, and Research of Molecular Systems for Devices (QE Final Examination)); and select the enterprises to host students on internships and research institutions to host students undergoing overseas training. For this reason, applicants must be sure to obtain the approval of their Academic Supervisor to participate in the course in advance.

(5) Handling of personal information

The applicant's name, address, and any other personal information provided at the time of application submission will be used for procedures related to "Screening (application processing)", "Implementation of screening", "Announcement of successful applicants", and "Subject registration" as well as administrative purposes related to the Advanced Graduate Course on Molecular Systems for Devices.

9. Screening Date: Monday, March 26, 2018

Screening method: individual interviews based on application documents

(Applicants will be contacted separately regarding screening details.)

10. Announcement of screening results: Tuesday, March 27, 2018

All applicants will be notified individually as to whether or not they passed the screening; in addition, the examinee numbers of successful applicants will be posted in the website of the Kyushu University Advanced Graduate Course on Molecular Systems for Devices.

<http://molecular-device.kyushu-u.ac.jp/>

11. Subjects to Be Taken and Doctoral Degrees

(1) Subjects to be taken

Students take designated subjects in the "Advanced Graduate Course on Molecular

Systems for Devices” in various graduate schools/departments while remaining enrolled in their current graduate school/department.

With regard to conditions for course completion and compulsory subjects, be sure to check with the Student Affairs staff for the relevant graduate school and/or the Program for Leading Graduate Schools Administration Office.

(2) Doctoral degrees

Whether or not a student attains a doctoral degree depends on the conditions for course completion of their respective graduate schools/departments/courses. Furthermore, the name of the Program for Leading Graduate Schools will be included on the doctoral degree certificate.

12. Applications for Admission to the Course in Autumn 2018

In the case that, following the 2018 Academic Year Screening (conducted on March 26, 2018), course vacancies remain, screenings may be conducted again in autumn and a small number of applicants accepted.

13. Financial Assistance

Under this program, a scholarship system has been established whereby students who desire to receive a scholarship payment may do so after undergoing the prescribed screening. These scholarships provide grant-type financial assistance to enable students to focus on their studies and/or research and are not based on household income.

In order to receive scholarship payments, students must fulfill the following requirements.

- (1) The student enrolls in and studies continuously in the course for one (1) year.
- (2) The student has not been accepted for a Japan Society for the Promotion of Science (JSPS) Research Fellowship for Young Scientists (DC).
- (3) The student is not receiving loan type scholarship payments from the Japan Student Services Organization (JASSO).
- (4) The student is not receiving scholarship payments from the Japanese Government (Ministry of Education, Culture, Sports, Science and Technology) as a government-sponsored international student.
- (5) The student is not receiving an honors scholarship as an international student from the Japan Student Services Organization (JASSO) or scholarship payments from their home country’s government.
- (6) The student is not receiving any other grant-type or loan-type scholarship payments, except in the case that the scholarship payments, etc. are recognized as being intended as tuition fee assistance.
- (7) The student does not receive income from employment during the period in which they

are receiving the scholarship payments.

However, receipt of income may be approved if the employment is deemed to be essential for the implementation of this course or for educational or research purposes, or if the employment is deemed to not hinder the student from focusing on their studies in the course. Please inquire at the contact address provided below for details.

Please note that payment of scholarships under Grants for Establishing Research Center (Leading Graduate School Building and Operational Funds) will conclude at the end of the 2018 academic year (March 31, 2019).

14. Inquiries

Administration Office,

Education Center for Global Leaders in Molecular Systems for Devices

W2-627, 744 Motooka, Nishi-ku, Fukuoka, 819-0395, Japan

Tel: +81-(0)92-802-2911

E-Mail: office atmark molecular-device.kyushu-u.ac.jp

(Change “atmark” to @ when inputting the address)