

Kyushu University

Application Guidelines for the “Advanced Graduate da Vinci Course on Molecular Systems for Devices” (Second Selection)

For applicants wishing to enroll in the First Year of the Master’s Course in April 2021

1. Advanced Graduate da Vinci Course on Molecular Systems for Devices

An integrated Master’s and Doctoral program with the curriculum that is rooted and structurally developed from the “Program for Leading Graduate Schools, Advanced Graduate Course on Molecular Systems for Devices”.

Through a five-year integrated education program, this course aims to nurture leaders capable of contributing globally to the fields of industry and academia 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 functions and research outcomes through the combination of conventional chemistry-based academic fields with other academic fields such as electronics, health technology, and data science. Moreover, it aims to systematize molecular functions and devices from individual molecular designs, and to clarify the position of such researches in the society.

3. Eligibility

Applicants must be students in the First Year of the Master's Course for any of the following Kyushu University graduate schools/departments on April 1st, 2021.

| | |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Graduate School of Engineering | Department of Materials, Department of Applied Chemistry, Department of Chemical Engineering, Department of Mechanical Engineering, Department of Hydrogen Energy Systems |
| Graduate School of Information Science and Electrical Engineering | Department of Information Science and Technology, Department of Electrical and Electronic Engineering |
| Graduate School of Science | Department of Chemistry |
| Graduate School of Systems Life Sciences | Department of Systems Life Sciences |

(Points to note when submitting an application)

- 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: Thursday, April 1st, 2021

5. Number of recruiting students: 1 student

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

Due to the influence of the coronavirus pandemic, it is understandable that the TOEIC Public Test could not be taken this year before the submission deadline of the application documents. Therefore, in replacement, an English test unique to this course will be conducted on the day of the screening interview.

[Exam format]: Oral presentation in English

[Presentation contents]: Self-introduction and aspiring motivation of joining the course

Applicants who have taken either the TOEIC Public Test (conducted in Japan or Korea) or TOEFL iBT examination in advance must also submit the score certificate.

- The score certificate must have a facial photograph of the applicant attached.
- TOEIC and/or TOEFL score certificates must have been issued on or after January 1st, 2019.
- 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)

Start: 09:00 on Wednesday, March 10th, 2021

Deadline: 16:00 on Friday, March 12th, 2021

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

(2) Addresses for submissions

(For submissions in person)

Student Affairs Division Administrative Office (Engineering, Information Science and Electrical Engineering and Integrated Frontier Sciences)

Ito Campus: Room 627, 6F, West Zone 2

(For submissions by postal mail)

Student Affairs Division Administrative Office (Engineering, Information Science and Electrical Engineering and Integrated Frontier Sciences)

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 side 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, the supervisors are required to attend meetings related to the course, including the meetings for Research Planning and Proposal, Comprehensive Exam (QE) in the second year of Master's study and Group Research Proposal (GRP) in the second year of Doctoral study, and the brainstorming discussions for Open Science Platform. In addition, the supervisors need to provide supportive information and ideas that are suitable for initiating collaborative researches with participating corporates, to implement the collaborative work and to give technical consultations. Due to the aforementioned duties, all applicants must obtain the approval from their respective Academic Supervisor(s) to apply for the enrollment of this 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 da Vinci Course on Molecular Systems for Devices.

9. Screening date: Tuesday, March 16th, 2021

Screening method: individual interviews based on application documents
(Applicants will be contacted separately regarding screening details.)

10. Announcement of screening results: Wednesday, March 17th, 2021

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 da Vinci 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.

(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.

12. Applications for admission to the course in Autumn 2021

In the case that vacancy remains after the 2021 Spring Admission Screening, Autumn Admission Screening would be conducted in the third quarter of 2021 and a few additional students might be accepted to the course.

13. Financial assistance

(1) RA

Students will be hired as RA for the following duty:

Master’s study: collecting information for the collaborative GRP research

14. Inquiries

Student Affairs Division Administrative Office (Engineering, Information Science and Electrical Engineering and Integrated Frontier Sciences)

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)