

“FrontierLab Mini Program”

Short-term Student Exchange Program

School/Graduate School of Engineering Science
Osaka University



FrontierLab Mini is a program designed to nurture creative competencies in students by offering a wide range of research directions and emphasizing hands-on laboratory experience. Applications from both undergraduates and graduates who major/minor in science and engineering are welcome. Each participant in the FrontierLab Program will be assigned to a particular research group, and thematic studies will be conducted under the close supervision of the faculty, through experiments, peer consulting, group work and interactive discussion. The program duration is up to 12 weeks. Please note that only those students from institutions listed separately with a student exchange agreement can be approved for this program, and this includes the provisions for a mutual tuition waiver. Please check the list* of the institutions which the School/Graduate School of Engineering Science has an agreement with. Applicants are required to have either English or Japanese language proficiency in order to carry out laboratory activities.

Study area offered by School/Graduate School of Engineering Science includes

(Undergraduate Level)

Electronics / Materials Physics / Chemistry / Chemical Engineering / Mechanical Science / Intelligent Systems Science / Biophysical Engineering / Computer Science / Software Science / Mathematical Science

(Graduate Level)

Material Physics / Chemistry / Chemical Engineering / Frontier Materials Science / Nonlinear Mechanics / Mechanical Engineering/ Bioengineering / Advanced Electronics and Optical Science / System Science and Applied Informatics / Mathematical Science / Mathematical Science for Social Systems

Exchange Duration

We offer flexible periods of study. The duration of the research is set from 2 to 12 weeks. Credits are available for each period of study. Credits to be obtained differ depending on the period of study and study hours.

Requirements

Students are required to have completed at least one year of study at an accredited university before participating in this program. Additionally, students are required to belong to the schools where we have mutual student exchange agreements.

Application Deadline

In the case where a visa is needed, please apply three months prior to the date of your desired enrollment. If you are a national with visa exemption, please apply two months prior to the date of your desired enrollment. Please contact us for further enrollment information and assistance with the application.

Scholarship

Exchange students coming for the FrontierLab Mini Program who are not receiving other scholarships are eligible to apply. It is ideal for the student to apply for the scholarship at an early stage. Note that only a small number of students will be selected. For more information, please contact us.



School/Graduate School of Engineering Science,
Osaka University

<https://www.es.osaka-u.ac.jp/en/>
ki-kyomu@office.osaka-u.ac.jp (Undergraduate Level)
ki-daigakuin@office.osaka-u.ac.jp (Graduate Level)

***List of institutions (according to region in alphabetical order) as of July 2024**

Asia & Oceania	China	Chongqing University (College of Mechanical Engineering)
		Dalian University of Technology (School of Chemical Engineering / School of Chemistry / School of Mechanical Engineering / School of Materials Science and Engineering / School of Energy and Power Engineering)
		Hebei University of Technology (School of Mechanical Engineering)
		Southeast University (School of Information Science and Engineering / School of Electronic Science and Engineering / School of Materials Science and Engineering / School of Chemistry and Chemical Engineering)
		Xi'an Jiaotong University (School of Materials Science and Engineering)
	Taiwan	National Taipei University of Technology (Collage of Engineering)
		National Taiwan University of Science and Technology (College of Engineering / College of Electrical Engineering and Computer Sciences / College of Applied Sciences)
	Indonesia	Brawijaya University (Faculty of Agricultural Technology / Faculty of Mathematics and Natural Sciences)
		Institut Teknologi Bandung (Faculty of Industrial Technology)
		IPB University
		Universitas Gadjah Mada (Faculty of Mathmatics and Natural Sciences)
		Universitas Negeri Malang
	Korea	Kyung Hee University (Graduate School / College of Engineering)
		Seoul National University (College of Agriculture and Life Sciences)
	Malaysia	Universiti Malaya (Faculty of Engineering)
		Universiti Sains Malaysia
		Universiti Teknologi Malaysia
	Singapore	National University of Singapore (College of Design and Engineering)
	Thailand	Mahidol University (Faculty of Engineering)
		Thai-Nichi Institute of Technology
	Vietnam	Nong Lam University (Faculty of Environment and Natural Resources)
		Vietnam Academy of Science and Technology (Institute of Materials Science)
		Vietnam National University-Ho Chi Minh City (University of Sciences)
	Australia	The University of Queensland (Faculty of Engineering, Architecture, and Information Technology)
	New Zealand	The University of Auckland (Faculty of Engineering)
Europe	Belgium	KU Leuven (Faculty of Science)
	France	Clermont Auvergne Institut National Polytechnique (INP)
		ÉCOLE NORMALE SUPÉRIEURE DE LYON
		ÉCOLE NORMALE SUPÉRIEURE PARIS-SACLAY
		Institute of Polytechnic Science and Aeronautics (IPSA)
		The University of Lille
	Germany	Frankfurt University of Applied Sciences
		Justus Liebig University Giessen (Faculty of Mathematics and Computer Science, Physics, Geography)
		Physikalisch-Technische Bundesanstalt (Institute for Experimental Quantum Metrology)
		Technische Universität Darmstadt
	Spain	The University of Castilla-La Mancha
		Universidad Carlos III de Madrid
	Sweden	KTH Royal Institute of Technology (School of Engineering Sciences)
North America &South America	Canada	University of Toronto (Faculty of Applied Science and Engineering)
	U.S.A	University of California, Davis (College of Engineering)
	Brazil	Universidade de São Paulo (Escola Politécnica)