

“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.

***List of institutions (according to region in alphabetical order) as of January 2023**

Asia & Middle East	China	Dalian University of Technology (School of Chemical Engineering/School of Mechanical Engineering/School of Materials Science and Engineering/School of Energy and Power Engineering)	
		Hunan University (School of Electrical and Information 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)	
		Hebei University of Technology (School of Mechanical Engineering)	
		Chongqing University (College of Mechanical Engineering)	
		China University of Mining and Technology (School of Information and Control Engineering)	
		Taiwan	National Taiwan University of Science and Technology (College of Engineering/College of Electrical Engineering and Computer Sciences/College of Applied Sciences)
	India	Indian Institute of Technology Delhi	
	Indonesia	Brawijaya University (Faculty of Agricultural Technology/Faculty of Mathematics and Natural Sciences)	
		Institut Teknologi Bandung (Faculty of Industrial Technology)	
		Universitas Negeri Malang	
	Korea	Korea University (College of Science and Technology)	
		Seoul National University (College of Agriculture and Life Sciences)	
	Malaysia	Universiti Teknologi Malaysia	
		University of Malaya (Faculty of Engineering)	
		Universiti Sains Malaysia	
	Singapore	National University of Singapore (Faculty of Engineering)	
	Thailand	Thai-Nichi Institute of Technology	
		Mahidol University (Faculty of Engineering)	
	Vietnam	Vietnam Academy of Science and Technology (Institute of Materials Science)	
		Vietnam National University-Ho Chi Minh City (University of Sciences)	
		Nong Lam University (Faculty of Environment and Natural Resources)	
	Iran	Sharif University of Technology	
	Europe	Belgium	KU Leuven (Faculty of Science)
		France	Ecole Normale Supérieure de Cachan
			The University of Lille
Institute of Polytechnic Science and Aeronautics (IPSA)			
Germany		Justus Liebig University Giessen (Faculty of Mathematics and Computer Science, Physics, Geography)	
		Frankfurt University of Applied Sciences	
		Physikalisch-Technische Bundesanstalt (Institute for Experimental Quantum Metrology)	
		Technische Universität Darmstadt	
Netherlands		Eindhoven University of Technology (Department of Biomedical Engineering)	
Spain		Universidad Carlos III de Madrid	
		The University of Castilla-La Mancha	
Sweden		KTH Royal Institute of Technology (School of Engineering Sciences)	
		Linköping University (The Faculty of Science and Engineering)	
North America & South America	Canada	University of Toronto (Faculty of Applied Science and Engineering)	
	U.S.A	Worcester Polytechnic Institute (WPI) (the Computer Science Department, the Interdisciplinary and Global Studies Division)	
		University of California, Davis (College of Engineering)	
Brazil	Escola Politécnica da Universidade de São Paulo		