

List of EU professors for **UGM students** on the short-term program in **2023**

2023/10/17~2023/11/16 (31days)

Department of Mechanical Engineering

Research area	Position	Name	Number of acceptable students	period	Research topic in which exchange students may engaged / URL
Unconventional Machining and Processing	Prof.	Hikomichi Toyota	2	1 month	Unconventional Machining and Processing http://www.me.ehime-u.ac.jp/labo/kikaisei/tokusyu/-homepage-top.html
Prasma process, Heat Transfer	Prof.	Shinfuku Nomura	2	1 month	Our lab. aims at building a sustainable energy society and is carrying out research into zero-emission processes using renewable energy. http://www.me.ehime-u.ac.jp/labo/kikaiene/netubutu/english/research.html
Robotics & Intellitent Systems	Prof.	Shingo Okamoto	1	1 month	Robotics & Intelligent Systems http://www.me.ehime-u.ac.jp/labo/kikaisys/robins/index.html
Mechanics of Materials	Prof.	Keiji Ogi	1	1 month	Structural integrity monitoring and machine learning of composite materials https://researchmap.jp/read0046162?lang=en https://scholar.google.co.jp/citations?hl=ja&user=ok0mC3IAAAAJ
Combustion & Thermal Engineering	Prof.	Masaya Nakahara	1	1 month	Smart control of combustion for alternative fuels such as hydrogen and natural gas http://www2.eng.ehime-u.ac.jp/profile/344?lang=en http://kenqweb.office.ehime-u.ac.jp/Profiles/0009/0001971/prof_e.html
Fluid mechanics	Prof.	Kazunori Yasuda	1	1month	Non-Newtonian fluid mechanics and its application. Medical fluid mechanics. http://www2.eng.ehime-u.ac.jp/profile/219/1/?lang=en https://www.me.ehime-u.ac.jp/labo/kikaiene/ryutai/index.html

Department of Electrical and Electronic Engineering

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Electronics Engineering	Prof. Assoc. Prof	Masafumi Jinno Yoshihisa Ikeda	1	1 month	Plasma electronics. Plasma gene transfection, bio-medical application and environmental preservation. Numerical modelling of plasma. Lighting.
Electronics Engineering	Prof.	Tomoaki Terasako	up to 2	1 month	Growth and characterization of metal oxide films and nanostructures for opto-electronic devices.

Department of Civil and Environmental Engineering

Research area	Position	Name	Number of acceptable students	period	Research topic in which exchange students may engaged / URL
Construction Material, Concrete Eng.	Prof. Assoc. Prof.	Isao Ujike Keiyu Kawai	2	1 month	1. Development of In-site test to measure air permeability coefficient of cover concrete 2. Development of concrete crack repair method using microbial metabolic process 3. Effect of internal cracking on corrosion rate of steel bar in concrete http://www.cee.ehime-u.ac.jp/~zairyuu/index.html
Geotechnical Eng.	Prof.	Mitsu Okamura	2	1 month	1. Centrifuge modeling of embankment failure due to liquefaction 2. Development of innovative ground improvement method against soil liquefaction 3. Stability control of river levee for floodings and earthquakes http://www.cee.ehime-u.ac.jp/~gm/indexE.html

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Rock Eng.	Assoc. Prof.	Naoki Kinoshita	1	1 month	<ol style="list-style-type: none"> 1. Rock Engineering 2. Development of gout materials for soils and concrete joints 3. Development of wireless network system for disaster mitigation http://www.cee.ehime-u.ac.jp/~rock/en/index.html
Atmospheric and Water Environment	Prof.	Ryo Moriwaki	1	1 month	<ol style="list-style-type: none"> 1. Field observation of urban meteorology and hydrology 2. Numerical simulation of urban climate using regional atmospheric model http://www.cee.ehime-u.ac.jp/~mizukan/en/
Coastal Oceanography, Coastal Eng.	Prof.	Hirofumi Hinata	2	1 month	<ol style="list-style-type: none"> 1. Analysis of HF radar-derived surface current velocity data off the Kii Channel, Japan 2. Measurement of microplastics from a beach by using digital microscopy
Informatics for Civil Eng.	Assoc. Prof.	Tomoya Kataoka	1	1 month	<ol style="list-style-type: none"> 1. Field survey of plastic contamination in river environment 2. Development of AI model for clarifying plastic transport from land to oceans 3. Development of remote sensing technique for monitoring ocean waves http://www.cee.ehime-u.ac.jp/~tkata/en/index.html
Traffic Eng.	Assoc. Prof.	Takahiro Tsubota	1	1 month	<ol style="list-style-type: none"> 1. Deep learning application to traffic flow forecasting 2. Development of AI model for road infrastructure inspection 3. Road safety assessment and traffic monitoring https://yoran.office.ehime-u.ac.jp/Profiles/6/0000568/profile.html?lang=en

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Department of Materials Science and Engineering

Research area	Position	Name	Number of acceptable students	period	Research topic in which exchange students may engaged / URL
Electric Materials	Prof.	Haruo Ihuri	1	1 month	Organic electronic device, High voltage Engineering, Electrical breakdown phenomena, Fractal analysis / ihori.haruo.mc@ehime-u.ac.jp
Environmental Materials	Prof.	Yoshiteru Itagaki	1	1 month	Chemical syntheses and evaluation catalyst-, electrode- and electrolyte-materials which can be applied for chemical sensors and fuel cells/ itagaki.yshiteru.mj@ehime-u.ac.jp
Metallic materials	Prof.	Sengo Kobayashi	1	1 month	Microstructure analysis of steels for structural material and Ti alloys for biomaterials/ kobayashi.sengo.me@ehime-u.ac.jp http://www.kobayashi.material.ehime-univ.jp/index.html

Department of Applied Chemistry

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Polymer Chemistry	Prof.	Eiji Ihara	2	1 month	Polymer syntheses by using polymerization reactions originally developed in this group. The polymerizations utilize unique reactivity of diazocarbonyl compounds to yield new polymers which cannot be prepared by conventional polymerizations.
	Assoc. Professor	Hiroaki Shimomoto		1 month	
	Lecturer	Tomomichi Itoh		1 month	Preparation of functional polymer particles by molecular design, monomer synthesis, and heterogeneous polymerization. Our polymer particles change their shape and affinity by external stimuli such as light irradiation, which offers great potential for their applications as advanced materials in micromechanical devices. https://yoran.office.ehime-u.ac.jp/Profiles/6/0000586/profile.html?lang=en
Catalysis and Coordination Chemistry	Prof.	Hidenori Yahiro	1	1 month	Selective oxidation of hydrocarbons over transition metal complex catalysts
Analytical Chemistry	Prof.	Tsuyoshi Asahi	1	1 month	UV-Vis spectroscopic analysis of nanomaterials
Organic Chemistry	Prof.	Minoru Hayashi	1	1 month	Synthesis of Organophosphine Ligands for Cross coupling or Asymmetric Catalyst Synthesis of Bioactive Organic Compounds
Biochemistry and Molecular Biology	Prof.	Hiroyuki Hori	1	1 month	Thermostable proteins and RNA from Thermophiles
Biochemistry	Prof.	Kazuyuki Takai	1	1 month	Gene cloning and protein expression in Escherichia coli
	Senior Assistant Prof.	Chie Tomikawa			

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Department of Computer Science

Research area	Position	Name	Number of acceptable students	period	Research topic in which exchange students may engaged / URL
Dependable computing	Prof. Prof.	Hiroshi Takahashi Yoshinobu Higami	1	1 month	1. Dependable systems, Dependable computing 2. Fault tolerant systems, Fault tolerant computing 3. Test and diagnosis of logic circuits, Design for testability of logic circuits
Machine Learning and Natural Language Processing	Prof. Assistant Prof.	Takashi Ninomiya Tomoyuki Kajiwara	1	1 month	Deep learning and natural language processing 1. Sequential labeling and parsing 2. Neural machine translation 3. Symbol grounding
Computer Science	Senior Assistant Prof.	Shun Ido	2	1 month	1. Image Processing 2. Virtual Reality 3. Computer Graphics
Computer Science	Senior Assistant Prof.	Koji Kinoshita	1	1 month	1. Object Tracking by Particle Filter, Mean-Shift 2. Motion Analysis by Optical Flow 3. Deep Learning for Image Recognition
Applied Mathematics	Prof. Assoc. Prof.	Kazunori Ando Hisashi Morioka	1	1 month	Mathematical Physics

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