

## Technological Directory - Graduate School and Faculty of Engineering (2020)

### Department of Environmental Engineering

Discipline	Field	Expertise	Keyword 1	Keyword 2	Keyword 3	Open to consultations on	Lab	Researcher	Related researchers
New multidisciplinary field	Environmental science	Environmental technology	Contaminated water and sludge disposal technology	Recycling technology	Environmental burden reduction environment	Biotreatment / sludge reduction technology / sludge recycling technology / industrial wastewater treatment	Sanitary and Environmental Engineering Lab	Munetaka ISHIKAWA, Professor	
Engineering, new multidisciplinary field	Civil engineering, environmental science	Environmental civil engineering, environmental technology	Water supply and sewage system	Water purification	Environmental conservation technology	Water treatment technologies / coagulation, sedimentation, filtration, membrane separation and other solid-liquid separation technologies / microorganism growth-inhibitory and monitoring technologies / tap water quality management	Urban Water Metabolic System Lab	Shinsuke KASAHARA, Professor	
New multidisciplinary field	Environmental science	Environmental technology	Environmental analysis	Water chemistry	Regional water management	Environmental analysis technologies/basin water environment management technologies/water quality and bottom sediment measurement and monitoring technology	Regional Water Management Lab	Yukio KOMAI, Professor	
Engineering	Electrical and electronic engineering	Structural/functional materials	Advanced energy technology	Flexible fuel cell and hydrogen production	Proton conducting electrolyte film and plasma reforming	Technologies making use of flexible single chamber fuel cell in microenergy systems Hydrogen production technology by plasma reforming	Environmental Energy Science Lab	Akiyoshi NAGATA, Professor	
Engineering	Basic engineering, mechanical engineering	Basic engineering, design engineering	System optimization technology	Simulation engineering	Optimum design of structural systems	Multi-objective and Global optimization of structural systems	Intelligent Design Engineering Lab	Masahide MATSUMOTO, Professor	
Science and engineering, engineering	Integrated engineering, process engineering	Energy engineering, catalyst/resource chemical processes	Energy conversion process	Energy systems	Environmental consciousness	Fuel cell generation systems/hydrogen manufacturing systems/environmental clean-up processes that make use of electrochemistry/new energy system technologies	Energy System Lab	Hitoshi MIYAMOTO, Professor	
Engineering, new multidisciplinary field	Civil engineering, environmental science	Environmental civil engineering, environmental technology	Waste management	Environmental conservation technology	Recycling technology	Behavior of metals, halogens and chlorides in waste treatment processing that uses waste product measurement and environmental thermodynamics/organic halogen monitoring that makes use of analytical atomic spectrometry	Cycle Infrastructure Engineering Lab	Nobuhisa WATANABE, Professor	

## Technological Directory - Graduate School and Faculty of Engineering (2020)

### Department of Environmental Engineering

Discipline	Field	Expertise	Keyword 1	Keyword 2	Keyword 3	Open to consultations on	Lab	Researcher	Related researchers
Environmental Science Agriculture	Conservation Science of Environment, Boundary agriculture	Conservation Science of Biological resources, Environmental agriculture, Horticultural science	Genetic resources	Molecular Breeding	Biodiversity	Molecular genetics of useful traits in cultivated plants/conservation of biogenetic resources/forest plant ecology/algal biofuel	Bioenvironmental Sciences Lab	Koji KAWAMURA, Associate Professor	
Engineering, new multidisciplinary field	Civil engineering, environmental science	Environmental civil engineering, environmental technology	Tap water and sewage	Reduced environmental burden technology	Energy-efficiency technology	Activated sludge process / Anaerobic digestion	Biocycle Lab	Yasunori KOSAKI, Professor	
Engineering, new multidisciplinary field	Architecture, environmental science	Architectural environment, equipment, and environmental impact assessment	Heat environment	Urban environment	Environmental impact assessments for land, water, and the atmosphere	Quantitative evaluation of the thermal load mitigation by rooftop and wall gardening/analyze of the heat island phenomenon/Quantitative evaluation of water requirement of plants	Meteorology of Biosphere Environment Lab	Naru TAKAYAMA, Associate Professor	
Engineering, new multidisciplinary field	Integrated engineering, civil engineering, environmental science	Life cycle engineering, environmental civil engineering systems, environmental policy	Reducing the production of waste	Waste management	Environmental management	Dynamic analysis of the generation of household waste/waste product collection, transportation and management technologies/basic plans for the regional environment and the formulation of implementation plans	Local Sustainability Lab	Masako FUKUOKA, Associate Professor	
New multidisciplinary field, social science	Social and safety system science	Social system engineering	Marketing science	Economic engineering	Industrial engineering	Marketing corresponding to diversified customer needs and management resources, development of HR programs to educate people central to manufacturing and issues with decision making in mid-to-long term investments	Environmental Monozukuri Management Lab	Kentaro MINAGAWA, Professor	
Science and Engineering	Materials science, Material engineering	Functional materials, Condensed matter physics	Electrics properties, energy conversion, energy harvesting, energy saving	Nano carbon, Molecular materials	Superconductivity, New generation batteries, Molecular degree of freedom, Electron correlation, Low dimensional magnetism,	Environmental science using molecular solids, layered materials, and light element clusters	Advanced Materials Lab	Satoshi HEGURI, Associate Professor	