

Civil and Environmental Engineering Program (M, D)

Research group	Supervisor	Department*	Research theme
			E-mail address
Structural Engineering, Materials, and Informatics	Prof. Kazuo Tateishi	C	Steel bridge engineering, Maintenance of steel structures, Fatigue and fracture of steel bridges, Mechanics of steel-concrete composite structures tateishi@civil.nagoya-u.ac.jp
	Prof. Hikaru Nakamura	C	Concrete structure, Seismic design of concrete structure, Maintenance and durability of concrete structure, Nonlinear analysis of concrete structure, Nondestructive test of concrete hikaru@nagoya-u.jp
	Assoc. prof. Yasuo Kitane	C	Maintenance engineering of steel structure, Structural applications of FRP composites, Structural behavior of civil steel structures subjected to extreme loading ykitane@civil.nagoya-u.ac.jp
	Assoc. prof. Takeshi Hanji	C	Fatigue and fracture of steel structures, Repair and retrofitting technique for cracked steel members, Seismic assessment and rehabilitation of steel bridges, Applications of image technique to infrastructures hanji@civil.nagoya-u.ac.jp
	Assoc. prof. Yoshihito Yamamoto	C	Numerical modeling of concrete and reinforced concrete, Failure and collapse simulation of concrete structures, Aging on concrete structures. Safety and restorability under extreme loadings (earthquake, impact, fire...) y.yamamoto@civil.nagoya-u.ac.jp
	Assoc. prof. Mikihiro Hirohata	C	Structural mechanics, Steel structures, Welding, Application of welding on maintenance, repair and reinforcement of steel structures, Soundness evaluation of welded structures, Simulation of welding mechanics hirohata@civil.nagoya-u.ac.jp
Hydraulics, Hydrology, Coastal, and Ocean Engineering	Prof. Norimi Mizutani	C	Stability of coastal structures, Wave deformation due to coastal and offshore structures and wave forces, Tsunami disaster and mitigation, Sediment transport and beach deformation mizutani@civil.nagoya-u.ac.jp
	Prof. Yuji Toda	C	River engineering, Fluvial hydraulics with riparian vegetation, Eco-hydraulics, Numerical modeling of river eco-system ytoda@cc.nagoya-u.ac.jp
	Assoc. prof. Tomoaki Nakamura	C	Stability of coastal structures and their foundation considering dynamic interaction between waves, structure motion, sediment transport, and seabed response; Tsunami-induced topographic change tnakamura@nagoya-u.jp
	Assoc. prof. Ryota Tsubaki	C	Advanced field monitoring of fluid flow and sediment transport, High resolution inundation flow simulation and its application to mitigate physical and environmental risks rtsubaki@civil.nagoya-u.ac.jp
Geotechnical Engineering	Prof. Masaki Nakano	C	Mechanical evaluation and quality certification for natural and artificial soil materials based on soil skeleton structure concept, Interpretation of the soil strengthening methods such as solidification, compaction etc. of various soil materials, Constitution of "sediment circulation system" considering utilization of soil materials at ordinary times as well as disaster periods nakano@civil.nagoya-u.ac.jp
	Prof. Toshihiro Noda	C	Soil-water-air coupled finite deformation analysis of saturated/unsaturated soils taking into consideration inertial forces, Interpretation/development of the countermeasure principles of ground improvements, Seismic response analysis of natural deposited and artificial grounds, Numerical replication of natural deposited grounds noda@nagoya-u.jp

	Assoc. prof. Shotaro Yamada	C	Progressive failure of grounds accompanying strain localization, Elasto-plastic description of mechanical behavior of a wide variety of soils, Fault rupture problems s-yamada@civil.nagoya-u.ac.jp
	Assoc. prof. Kentaro Nakai	C	Comprehension of dynamic/static behavior of various soils and their elasto-plastic description, Seismic response analysis of ground-structure interaction systems nakai@civil.nagoya-u.ac.jp
Transportation, Infrastructure, and Environmental Planning	Prof. Takayuki Morikawa	E	Transportation planning, Travel behavior analysis, Intelligent transportation systems (ITS) morikawa@nagoya-u.jp
	Prof. Hideki Nakamura	E	Traffic Engineering, Urban transport policy, Road geometric design, Traffic operation, Traffic safety, User behavior modeling, Traffic simulation model, ITS nakamura@genv.nagoya-u.ac.jp
	Prof. Toshiyuki Yamamoto	C	Vehicle ownership and use, Travel behavior analysis, Environmentally sustainable transport (EST), Intelligent transport system (ITS), Traffic safety yamamoto@civil.nagoya-u.ac.jp
	Assoc. prof. Hirokazu Kato	E	Low carbon & sustainable transport system, Environmental life cycle assessment of social stock, Resilient national & urban design, Region revitalization strategies kato@genv.nagoya-u.ac.jp
	Assoc. prof. Tomio Miwa	C	Transportation planning, Travel behavior analysis, Intelligent transport systems, Traffic assignment models and traffic simulators miwa@nagoya-u.jp
Environmental and Environmental System Engineering	Prof. Arata Katayama	C	Microbial remediation of contaminated soil and water, Evaluation of remediation technologies, Reclamation of organic wastes katayama.arata@nagoya-u.jp
	Prof. Kiichiro Hayashi	C	Environmental policy, Environmental assessment, Biodiversity and ecosystem service assessment, International environmental cooperation maruhaya98--@nagoya-u.jp
	Prof. Hiroki Tanikawa	E	Environmental system analysis, Material stock and flow analysis for sustainable city, Weight of cities, 4d-GIS, Socio economical metabolism, industrial ecology tanikawa@nagoya-u.jp
	Assoc. prof. Hiroaki Shirakawa	E	Analysis for economic and environmental interdependency among countries in the world , Evaluation of efficiency of urban environmental management, Economic evaluation of environmental policy sirakawa@urban.env.nagoya-u.ac.jp
	Assoc. prof. Nagahisa Hirayama	E	Disaster prevention & preparedness in water system, Business continuity planning & risk communication for water utility, Redesign for water distribution system, Disaster debris management system hirayama.nagahisa@nagoya-u.jp
Ground Design	Prof. Takashi Tomita	E	National and regional space design for sustainable and resilient society, Coastal disaster management, Social implementation of national and regional design methodology tomita@urban.env.nagoya-u.ac.jp
	Lecturer Shinichiro Nakamura	C	Climate change adaptation in developing country, Land design on river basin, Green infrastructure design shinichiro@civil.nagoya-u.ac.jp

*Department

C: Civil and Environmental Engineering, Graduate School of Engineering

E: Environmental Engineering and Architecture, Graduate School of Environmental Studies