Laboratory List

NAGOYA UNIVERSITY GLOBAL 30 INTERNATIONAL PROGRAMS

Automotive Engineering（Mechanical Systems Engineering）

Research Group	Research Area	Job title	Name	Email	Research Interests
Mechanical Science and Engineering	Thermal Control Engineering	Professor	Hosei Nagano	hosei.nagano<at>mae.nagoya-u.ac.jp	The creation of next-generation thermal management technology based on advanced measurements
Mechanical Science and Engineering	Thermal Control Engineering	Assoc. prof.	Kazuhiro Yamamoto	kazuhiro.yamamoto<at>mae.nagoya-u.ac.jp	The creation of next-generation thermal management technology based on advanced measurements
Mechanical Science and Engineering	Thermal Control Engineering	Lecturer	Ai Ueno	ai.ueno<at>mae.nagoya-u.ac.jp	The creation of next-generation thermal management technology based on advanced measurements
Mechanical Science and Engineering	Energy and Environmental Engineering	Professor	Ichiro Naruse	ichiro.naruse<at>mae.nagoya-u.ac.jp	Development of globally and locally ecological energy conversion technologies
Mechanical Science and Engineering	Energy and Environmental Engineering	Assoc. prof.	Ryo Yoshiie	ryo.yoshiie<at>mae.nagoya-u.ac.jp	Development of globally and locally ecological energy conversion technologies
Mechanical Science and Engineering	Energy and Environmental Engineering	Assoc. prof.	Yasuaki Ueki	yasuaki.ueki<at>mae.nagoya-u.ac.jp	Development of globally and locally ecological energy conversion technologies
Mechanical Science and Engineering	Statistical Fluid Engineering	Professor	Yasumasa Ito	yasumasa.ito<at>mae.nagoya-u.ac.jp	Researches on turbulent transport phenomena and related
Mechanical Science and Engineering	Biomechanics	Professor	Takeo Matsumoto	takeo.matsumoto<at>mae.nagoya-u.ac.jp	Multiscale elucidation of mechanical adaptation phenomena of biological tissues and its application to medicine and engineering
Mechanical Science and Engineering	Biomechanics	Assoc. prof.	Eijiro Maeda	eijiro.maeda<at>mae.nagoya-u.ac.jp	Multiscale elucidation of mechanical adaptation phenomena of biological tissues and its application to medicine and engineering
Mechanical Science and Engineering	Solid Mechanics	Professor	Dai Okumura	dai.okumura<at>mae.nagoya-u.ac.jp	Solid Mechanical Properties: Nano, Micro, Macro
Mechanical Science and Engineering	Solid Mechanics	Assoc. prof.	So Nagashima	so.nagashima@mae.nagoya-u.ac.jp	Solid Mechanical Properties: Nano, Micro, Macro
Mechanical Science and Engineering	Computational Mechanics	Professor	Toshiro Matsumoto	toshiro.matsumoto<at>mae.nagoya-u.ac.jp	Advancement of Numerical Simulation and Virtual Engineering Technology and Their Applications to Design Engineering
Mechanical Science and Engineering	Computational Mechanics	Assoc. prof.	Toru Takahashi	toru.takahashit＜at＞mae.nagoya-u.ac.jp	Advancement of Numerical Simulation and Virtual Engineering Technology and Their Applications to Design Engineering
Mechano-Informatics	Mechanical System Dynamics	Professor	Tsuyoshi Inoue	inoue.tsuyoshi<at>nagoya-u.jp	Modeling, analysis and control of nonlinear mechanical systems
Mechano-Informatics	Mechanical System Dynamics	Assoc. prof.	Akira Heya	akira.heya＜at＞mae.nagoya-u.ac.jp	Modeling, analysis and control of nonlinear mechanical systems

Automotive Engineering（Mechanical Systems Engineering）

Research Group	Research Area	Job title	Name	Email	Research Interests
Mechano-Informatics	Vehicle Safety Engineering	Professor	Koji Mizuno	koji.mizuno<at>mae.nagoya-u.ac.jp	Understanding of injury mechanisms and prevention of human injury during motor vehicle impact
Mechano-Informatics	Dynamical Systems Control	Assoc. prof.	Toru Asai	toru.asai<at>mae.nagoya-u.ac.jp	Design of Dynamics and Systems Innovation
Mechano-Informatics	Biomechanical Control	Professor	Ichiro Takeuchi	ichiro.takeuchi<at>mae.nagoya-u.ac.jp	Design and Control of Intelligent Mechanical Systems based on Brain-like Control Mechanism
Mechano-Informatics	Biomechanical Control	Assoc. prof.	Kouichi Taji	kouichi.taji<at>mae.nagoya-u.ac.jp	Design and Control of Intelligent Mechanical Systems based on Brain-like Control Mechanism
Mechano-Informatics	Mobility System	Professor	Tatsuya Suzuki	tatsuya.suzuki<at>mae.nagoya-u.ac.jp	Modeling, analysis, and control of mobility systems based on advanced system science
Mechano-Informatics	Mobility System	Assoc. prof.	Hiroyuki Okuda	h_okuda<at>nuem.nagoya-u.ac.jp	Modeling, analysis, and control of mobility systems based on advanced system science
Mechano-Informatics	Mobility System	Assoc. prof.	Akira Ito	akira.ito<at>mae.nagoya-u.ac.jp	Modeling, analysis, and control of mobility systems based on advanced system science
Micro-Nano Mechanical Science	Advanced Manufacturing Process	Professor	Noritsugu Umehara	noritsugu.umehara<at>mae.nagoya-u.ac.jp	Creation and Evaluation of Function Surface for new generation machine systems
Micro-Nano Mechanical Science	Advanced Manufacturing Process	Assoc. prof.	Takayuki Tokoroyama	takayuki.tokoroyama<at>mae.nagoya-u.ac.jp	Creation and Evaluation of Function Surface for new generation machine systems
Micro-Nano Mechanical Science	Material Characterization & Mechanics	Assoc. prof.	Yuhki Toku	yuki.toku<at>mae.nagoya-u.ac.jp	Creation and Development of Advanced Materials through Integration of Nano-characterization and Nano-mechanics
Micro-Nano Mechanical Science	Micro Thermal-Fluids Engineering	Assoc. prof.	Hiroki Yamaguchi	hiroki.yamaguchi<at>mae.nagoya-u.ac.jp	Microscale Analyses of Atomic/Molecular Flows
Micro-Nano Mechanical Science	Sensing Engineering	Professor	Kenji Fukuzawa	kenji.fukuzawa<at>mae.nagoya-u.ac.jp	Nanometrology and Intelligent Sensing for Micro-Nano Mechatronics
Micro-Nano Mechanical Science	Sensing Engineering	Assoc. prof.	Shintaro Itoh	shintaro.itoh<at>mae.nagoya-u.ac.jp	Nanometrology and Intelligent Sensing for Micro-Nano Mechatronics
Micro-Nano Systems	Biorobotics and Biomedical Engineering	Assoc. prof.	Hisataka Maruyama	hisataka.maruyama<at>mae.nagoya-u.ac.jp	Robotics Based on MEMS and Nanotechnology for Biomedical Innovation
Micro-Nano Systems	Intelligent Robotics and Biomechanics	Professor	Yasuhisa Hasegawa	yasuhisa.hasegawa<at>mae.nagoya-u.ac.jp	Intelligent robotic systems for human support and micro/nano mechatronics
Micro-Nano Systems	Intelligent Robotics and Biomechanics	Assoc. prof.	Tadayoshi Aoyama	tadayoshi.aoyama<at>mae.nagoya-u.ac.jp	Intelligent robotic systems for human support and micro/nano mechatronics
Micro-Nano Systems	MEMS and Micro-Nano Machining	Professor	Seiichi Hata	seiichi.hata<at>mae.nagoya-u.ac.jp	MEMS, Micro/Nano Mechatronics and Micromachining
Micro-Nano Systems	MEMS and Micro-Nano Machining	Assoc. prof.	Junpei Sakurai	junpei.sakurai<at>mae.nagoya-u.ac.jp	MEMS, Micro/Nano Mechatronics and Micromachining

Automotive Engineering（Mechanical Systems Engineering）

Research Group	Research Area	Job title	Name	Email	Research Interests
Aerodynamics and Propulsion	Fluid Dynamics	Assoc. prof.	Watanabe Tomoaki	tomoaki.watanabe<at>mae.nagoya-u.ac.jp	Turbulent flow phenomena and flight system in aerospace engineering
Aerodynamics and Propulsion	Shock Wave and Space Propulsion	Professor	Akihiro Sasoh	akihiro.sasoh<at>mae.nagoya-u.ac.jp	Understanding physics of shock waves and plasma flows for applying supersonic flight and space propulsion applications
Aerodynamics and Propulsion	Shock Wave and Space Propulsion	Assoc. prof.	Kiyoshi Kinefuchi	kiyoshi.kinefuchi<at>mae.nagoya-u.ac.jp	Understanding physics of shock waves and plasma flows for applying supersonic flight and space propulsion applications
Aerodynamics and Propulsion	Propulsion and Energy Systems Engineering	Professor	Jiro Kasahara	kasahara<at>nuae.nagoya-u.ac.jp	Research on next generation’s aerospace propulsion/detonation engine
Aerodynamics and Propulsion	Propulsion and Energy Systems Engineering	Assoc. prof.	Ken Matsuoka	ken.matsuoka<at>mae.nagoya-u.ac.jp	Research on next generation’s aerospace propulsion/detonation engine
Structure and Manufacturing	Structual Mechanics	Professor	Masahiro Arai	masahiro.arai<at>mae.nagoya-u.ac.jp	Creation of innovative material and structural systems and development of advanced evaluation methods
		Professor	Akinori Yoshimura	akinori.yoshimura<at>mae.nagoya-u.ac.jp	
Structure and Manufacturing	Structual Mechanics	Assoc. prof.	Keita Goto	keita.goto<at>mae.nagoya-u.ac.jp	Creation of innovative material and structural systems and development of advanced evaluation methods
Structure and Manufacturing	Production Engineering	Professor	Eiji Shamoto	eiji.shamoto<at>mae.nagoya-u.ac.jp	Recent advances in precise/micro/high-efficiency machining and clarification of machining phenomena
Structure and Manufacturing	Production Engineering	Assoc. prof.	Takehiro Hayasaka	takehiro.hayasaka<at>mae.nagoya-u.ac.jp	Recent advances in precise/micro/high-efficiency machining and clarification of machining phenomena
Flight and Control	Aerospace Vehicle Dynamics	Professor	Shigeru Sunada	shigeru.sunada<at>mae.nagoya-u.ac.jp	Aircraft and spacecraft systems that can be achieved through the use of advanced technologies
Flight and Control	Aerospace Vehicle Dynamics	Assoc. prof.	Takaya Inamori	takaya.inamori<at>mae.nagoya-u.ac.jp	Aircraft and spacecraft systems that can be achieved through the use of advanced technologies
Flight and Control	Control Systems Engineering	Professor	Susumu Hara	susumu.hara<at>mae.nagoya-u.ac.jp	Development and realization of advanced control methodologies for aerospace systems
Flight and Control	Control Systems Engineering	Assoc. prof.	Daisuke Tsubakino	daisuke.tsubakino<at>mae.nagoya-u.ac.jp	Development and realization of advanced control methodologies for aerospace systems

* Please change <at> to @ in an email address of each faculty member.
  For more details on Research Interests, please also check the website below.
  http://meas.engg.nagoya-u.ac.jp/en/

*If you wish to be enrolled in the Automotive Engineering program but desire a faculty member who is not listed on this roster as your preferred advisor, please contact the professors and consult with them accordingly.