

Institute of Mechanical Engineering & Materials Science

Research Internships

Language of training: English

Audience: graduate students, undergraduates.

Department	Internship name	Internship goal	Supervisor	Duration, months
Welding and Metallurgy	Laser and gas thermal technologies for producing biocompatible thin films and coatings based on bioinert metal oxide matrices	Mastering of laser and gas thermal technologies for producing biocompatible thin films and coatings based on bioinert metal oxide matrices	Professor Igor Rodionov e-mail: iv.rodionov@mail.ru	2
Mechanical Engineering	Methods of research activities of undergraduates in engineering	Formation of skills and abilities to conduct theoretical and experimental studies on the topics of dissertations of undergraduates in engineering	Professor Albert Korolev e-mail: science7@bk.ru	1
Technical Mechanics & Mechatronics	Engineering analysis of engineering products using the APM WinMachine software products	The improvement of professional competencies for the creation of a finite element model and structural strength analysis in APM WinMachine	Ass. Professor Balaev A. e-mail userandrey@ya.ru Ass. Professor Vladimir Karacharovsky e-mail: kongip@mail.ru	1
Materials	Study of the processes of high-temperature processing of materials	The purpose of the internship is to improve the quality of metal	Head of the Department Aleksandr Fomin	1

Science and Biomedical Engineering	and coatings used in tool manufacturing and in the manufacture of products for regenerative medicine	products through the development of combined technologies for high-temperature processing of materials and the formation of functional coatings in the framework of international cooperation, including internship projects	e-mail: afominalex@gmail.com	
Engineering Geometry & CAD Systems	Digital modeling of complex surfaces and shells	Mastering digital technologies in 3D modeling (Ass. Professor Elena Danilova e-mail: lenochka240766@rambler.ru	1