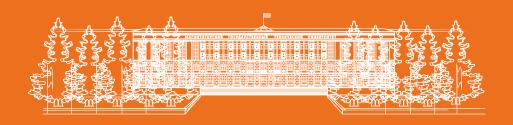


**NOSOV MAGNITOGORSK STATE TECHNICAL UNIVERSITY** 

**MAGNITOGORSK, 2019** 



The Institute of Metallurgy, Mechanical Engineering and Material Processing is a part of the largest technical universities of the Russian Federation - Nosov Magnitogorsk State Technical University.

Nosov Magnitogorsk State Technical University has been acting as a supporting higher education organization since 2017, having defended the Development Program until 2021.

The role of each university is to be a center of attraction (magnet) for talents. Magnetic Mountain (a large place - the birth of magnetic iron ore) saved the country during World War II (every third projectile and armor of each second tank during the war years were made of Magnitogorsk steel) and exhausted its resources in the 90s of the XX century. Today NMSTU decides the problem of creating a new "Magnetic Mountain" from "Alloy" of talents from all over the world on the border of the birth of another new industrial revolution.

The success of the MSTU graduate is a guarantee of what is in the Forbes cumulative state graduates billionaires NMSTU occupies the 13th position.

The slogan of our university: "Magnet for talents! Vector of success!

Mission of NMSTU is the formation of a world entrepreneurial elite focused on creation of scientific and innovative technologies in the field of iSmArt-metallurgy for the development of transboundary Russia and other industrial countries.

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**ADVANTAGES** 

#### OF THE FUTURE PROFESSION:

Specialists work at production, design, and research divisions of iron and steel works and companies. In view of a major specialization, metallurgists deal with iron and steel production in blast furnaces, basic oxygen furnaces, and electric arc furnaces. They monitor a mining process, control processing, and hold responsibility for industrial environment and labor safety. They are involved in environment protection against hazardous emissions.



History Foreign language Philosophy

**Economics** 

Legal science

Culturology and cross-cultural communication
Team building and personal development

Life safety

**Mathematics** 

**Physics** 

Chemistry

**Ecology** 

Metrology, standardization and certification Information science and information technologies

Production management

Thermal physics

Metallurgical heat engineering



Mathematical statistics in metallurgy **Optimization methods** Numerical methods Fundamentals of mineralogy Hydro- and aerodynamics in metallurgy Theory, technology and automation of the blast furnace process Powder metallurgy technology Theory and technology of iron ore lumping Technology-related resources of metallurgical regions Blast furnace (BF) operation BF process control methods BF design Modern BF shop equipment Steel casting and solidification Modern casting and rolling complexes Structures and design of steel melting shops Design of steel melting facilities **BOF** steelmaking EAF steelmaking Ladle metallurgy New processes of metallurgy Practical introductory training Practical training for acquiring initial professional competence and skills, including initial research competence and skills Industrial practical training for acquiring professional skills and professional experience Industrial pre-graduation practical training Preparing for, and passing the state examination Preparing of, and defending the graduation thesis







Prof. BIGEEV V.A., DSc (Engineering)
RESEARCH AREA:
increasing efficiency of steel melting and ladle treatment



Prof. SIBAGATULLIN S.K., Dsc (Engineering)
RESEARCH AREA:
developing energy- and resource-saving technologies at sintering and

blast furnace process stages, when producing ferrous metals.



Assoc.Prof. KHARCHENKO A.S., PhD (Engineering)
RESEARCH AREA:

flow of gases and materials, heat/mass transfer, mechanics of granular materials, gas dynamics, filtering high-temperature fluid through a coke layer.



Assoc.Prof. PANISHEV N.V., PhD (Engineering) RESEARCH AREA:

improving theory and technology of sintering and blast furnace processes and coke-free metallurgy.



Assoc.Prof. POTAPOVA M.V., PhD (Engineering) RESEARCH AREA:

studying theoretical issues and production processes of metallurgical processing of complex iron ore and technologyrelated raw materials. Electrometallurgy of steels and ferroalloys.

Specialists work at production, design, and research divisions of iron and steel works and companies. In view of a major specialization, metallurgists deal with iron and steel production in blast furnaces, basic oxygen furnaces, and electric arc furnaces. They monitor a mining process, control processing, and hold responsibility for industrial environment and labor safety. They are involved in environment protection against hazardous emissions.













The Bachelor's programme in "Jewelry and Industrial Foundry Technology" is primarily aimed with a focus on foundry technology. The Bachelor's programme is oriented towards the modern development of jewelry and foundry technologies and highlights, for example, in-depth aspects of process engineering and quality assurance.



Upon graduation of the university students acquire theoretical knowledge and practical skills of jewelry and industrial casting technologies. Knowing jewelry and industrial casting processes, graduates can find a job at companies operating in machinery, ore mining and smelting, aerospace, tool making and other industries.

Moreover, many graduates are in demand and successfully work at research and engineering institutes, research centers, analytical laboratories, consulting companies and dealer firms selling steel products and equipment in Russia and abroad.





History Foreign language **Philosophy Economics** Team building and personal development Life safety **Mathematics Physics** Chemistry Ecology Metrology, standardization and certification Thermal physics **Production management** Metallurgical heat engineering Fundamentals of metallurgical production Materials and processes research methods Simulating processes and facilities in metallurgy Physical chemistry Basic jewelry technologies Materials science Theory of casting processes Casting technology Designing new and revamping existing foundry shops Manufacturing non-ferrous alloy castings Special casting methods Technological equipment of foundry shops

3D design of casting molds **Computer simulation of casting processes** Computer analysis of casting technologies Special cast iron Resource - and energy-saving in casting Jewelry metals and alloys casting technologies Fundamentals of alloy synthesis Art casting technique for metallic and nonmetallic materials Design of accessories, process lines and complexes for industrial and jewelry products **Patternmaking** Fundamentals of design of cast parts Jewelry casting technique Practical introductory training Practical training for acquiring initial professional competence and skills, including initial research competence and skills Industrial pre-graduation practical training.









Prof. KOLOKOLTSEV V.M., DSc (Engineering), Department of Casting Processes and Materials Science, President of Nosov Magnitogorsk State Technical University

#### **RESEARCH AREA:**

- synthesis of alloys based on ferrous and non-ferrous metals with set properties,
- cast iron of a special application,
- structure formation of casting alloys.



#### Prof. VDOVIN K.N., DSc (Engineering)

#### **RESEARCH AREA:**

- development of casting technology,
- steel and alloy continuous casting,
- development of a chemical composition of alloys with set properties,
- development of compositions of fluxes and slag-forming mixtures,
- development and optimization of roll and alloy manufacturing technologies, and heat treatment modes.



#### Prof. CHERNOV V.P., DSc (Engineering)

- RESEARCH AREA:
- slag and stone casting,
- manufacturing non-ferrous metal alloy castings,
- resource-saving in casting.



Assoc.Prof. FEOKTISTOV N.A., PhD (Engineering), Head of Department of Casting Processes and Materials Science RESEARCH AREA:

- development of casting technologies,
- development of a chemical composition of alloys with set properties,
- computer simulation of casting processes.



Assoc.Prof. POTAPOV M.G., PhD (Engineering), RESEARCH AREA:

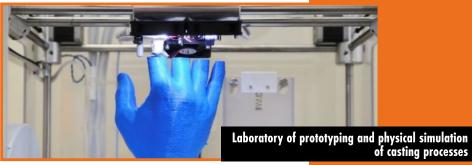
- synthesis of alloys with set performance properties,
- high-temperature treatment of liquid melts based on ferrous metals.
- development of a composition of special cast iron.



#### Assoc.Prof. SINITSKY E.V., PhD (Engineering) RESEARCH AREA:

- synthesis of alloys based on ferrous and non-ferrous metals with set properties,
- jewelry casting technique,
- 3D simulation and additive manufacturing technologies in casting.









Physical and chemical research laboratory





As part of studies in the major of materials science and materials engineering (in mechanical engineering), students acquire theoretical and practical competence of metal science and heat treatment of metals.

University graduates are in demand by top metallurgical companies in Russia and abroad.

Such demand for graduates is guaranteed by a significant number of metallurgical and machine building companies in Russia and foreign countries. Graduates, majoring in metal science, are in demand and successfully work at research and engineering institutes, research centers, analytical laboratories, consulting companies and dealer firms selling steel products and equipment in Russia and abroad.

Main future professions include:

- Material Engineer,
- Production/Heat Treatment Engineer,
- Metallographer,
- Engineer for testing materials and coatings,
- Metallurgist.

The programme provides you with a broad knowledge of materials and processes in mechanical engineering. Progressing with the problem will lead you from basic material knowledge and understanding to expert knowledge of new and innovative materials in modern metallurgy.



graphics

engineering

Materials science

Theory of heat treatment

Manufacturing techniques in mechanical

Mechanical properties of materials







Prof. SYCHKOV A.B., DSc (Engineering)
RESEARCH AREA:

Forming a structure and properties of steel products in the production flow (rolling mills) by developing efficient heat treatment processes and equipment upgrading. Welding processes in steels. Microalloyed steels.



Prof. EMELYUSHIN A.N., DSc (Engineering)
RESEARCH AREA:

forming a structure and properties of wear-resistant white cast iron for products operating in intensive abrasive wearing conditions.



Prof. PETROCHENKO E.V., DSc (Engineering)
RESEARCH AREA:

Synthesis of polyfunctional, complex alloyed iron-carbon alloys. Development of heat treatment types and modes for new alloys.



Prof. ZAVALISHCHIN A.N., DSc (Engineering)
RESEARCH AREA:

Material surface modification. Hot and cold rolled products.



Prof. KOPTSEVA N.V., DSc (Engineering)
RESEARCH AREA:

structural phase changes in materials and forming properties of products of metallurgical and machine manufacturing plants.

















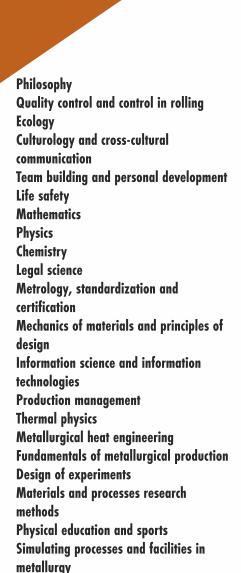


## ADVANTAGES OF THE FUTURE PROFESSION:

At present, the rolling division includes knowledge-intensive technologies and a final stage of manufacturing high value-added steel products for automotive, pipe and building industries, shipbuilding and railway mechanical engineering, requiring tens of million tons annually. Our graduates are always in demand at metallurgical plants, research centers, analytical laboratories, consulting companies and dealer firms selling steel products and equipment.



Metrology, standardization and certification Materials and processes research methods **Project activities** Promotion of research products Principles of metal forming process automation Theory of metal forming Technological information processing and analysis Fundamentals of metal forming mechanics Long products manufacturing techniques Flat products manufacturing techniques Rolling process simulation Principles of design of rolling shops Metal forming process optimization methods Rolling shop equipment **Economics** History Foreign language





#### **TEACHERS:**

Prof. MOLLER A.B., DSc (Engineering), Head of the Department of Materials Processing Techniques

#### **RESEARCH AREA:**

methodology of increasing efficiency of manufacturing long products by structuring and developing quality management elements.



Assoc.Prof. LEVANDOVSKY S.A., PhD (Engineering) RESEARCH AREA:

quality control of long products, information systems for rolling process automation.



Assoc.Prof. CHIKISHEV D.N., PhD (Engineering) RESEARCH AREA:

developing and introducing new manufacturing technologies for flat products with a high set of mechanical and special performance properties from low-alloyed steels applied in strategically important industrial sectors.



Assoc.Prof. RUMYANTSEV M.I., DSc (Engineering)

RESEARCH AREA: computer simulation and statistical evaluation of performance of rolling and other processes of manufacturing different types of flat products to increase their efficiency and learn how to produce new types of products.























Graduates of Metal Metalware programme will be further exposed to the principles of metallurgy and metal physics as they relate to the processing of metallic materials and to heat treatment and refining. They will then be in a position to independently plan and carry out the development, implementation and optimization of processes, materials and procedures.



Competence of manufacturing steel products of various sizes (a wire diameter of 7µm to 30 mm), nanostructured products, development of one of global economy trends, coating metals with protective special and decorative special layers.



Manufacturing flat products

Materials and processes research methods **Project activities** Promotion of research products **Optimization methods** Theory of metal forming **Metal forming processes** Metal forming shop equipment New technological solutions in metal forming processes Metal corrosion and protection Wire manufacturing technique Metalware manufacturing technique **Quality control** Manufacturing long products Metrology, standardization and certification **Physics** Foreign language **Philosophy Economics** 







Prof. POLYAKOVA M.A., DSc (Engineering)
RESEARCH AREA:

developing continuous methods of carbon steel wire deformation nanostructuring methods, research of wire mechanical properties and structure, when combining various types of deformation treatment, development of scientific fundamentals of standardization for metallurgical products and metalware, development of standardization in a period of the sixth wave of innovation.



Legal science

Culturology and cross-cultural

Metrology, standardization and certification
Mechanics of materials and principles of design
Information science and information

technologies
Production management
Thermal physics
Metallurgical heat engineering

Metallurgical heat engineering
Fundamentals of metallurgical production
Design of experiments
Materials and processes research

methods
Physical education and sports
Simulating processes and facilities in
metallurgy



Assoc.Prof. GOLUBCHIK E.M., DSc (Engineering) RESEARCH AREA:

Innovative metallurgical technological processes and materials. New approaches to steel products quality management.



Prof. KHARITONOV V.A., PhD (Engineering)
RESEARCH AREA:

theory and technological processes of manufacturing wire for different applications by drawing in solid-cast and roller dies, cold (warm) rolling of long products and applying module combined methods, theory and technology of sizing reduction of steel wire.



Prof. BARYSHNIKOV M.P., DSc (Engineering)
RESEARCH AREA:

physical and mathematical simulation of material forming processes; research on coating properties and processes.























#### A JOB IN THESE FIELDS WILL CONTRIBUTE TO:

- learning various software applying computational methods (finite element method, finite difference method, finite volume method) to evaluate at an engineering stage how the created object will behave in its actual operation and above all in emergency modes,
- learning methods to increase reliability of mechanical elements of metallurgical machines and equipment, and applying such methods in practice,
- participating in research and development,
- participating in a design of new machines and units as part of technological complexes,
- defending PhD and DSc theses,
- acquiring required competence, becoming a professional and securing stable future.



Adaptive courses on physical education and sports Foreign language for professional purposes **Project activities** Promotion of research products Fundamentals of research Simulation in mechanical engineering **Construction materials engineering** Process lines and complexes of metallurgical shops Mechanical equipment of metallurgical plants Fluid and gas mechanics Installation, operation, and repair of metallurgical machines and equipment Machine parts **Fundamentals of compatibility Reverse engineering** Introduction to the course Steel structure engineering Metallurgical lifting and handling machines Project assessment of reliability of facilities Design of hydraulic and pneumatic drive systems Modeling and engineering in AutoCAD Computer-aided design Practical training for acquiring initial professional competence and skills, including initial research competence and skills Industrial practical training for acquiring professional skills and professional experience Industrial pre-graduation practical training Preparing for, and passing the state examination Preparing of, and defending the graduation thesis







Prof. KORCHUNOV A.G.,

Dsc (Engineering), Head of the Department of Design and Operation of Metallurgical Machines and Equipment

#### **RESEARCH AREA:**

development of the theory of quality control for research and technological principles of manufacturing products from prospective, nanostructured steels and powder materials in metallurgy and metalware sector.



Prof. ANTSUPOV V.P., DSc (Engineering)

#### **RESEARCH AREA:**

increasing reliability and service life of metallurgical machine parts by strengthening and cladding techniques, improving lubrication systems and applying efficient lubricating materials.



Prof. TOCHILKIN V.V., DSc (Engineering)

#### **RESEARCH AREA:**

development of the theory and technology of casting alloys and processes.



### Assoc.Prof. ANTSUPOV A.V., PhD (Engineering) RESEARCH AREA:

increasing reliability and service life of metallurgical machine parts by strengthening and cladding techniques, improving lubrication systems and applying efficient lubricating materials.











# COURSE: DESIGN OF TECHNOLOGICAL MACHINES AND COMPLEXES MAJOR: DESIGN OF METALLURGICAL MACHINES AND COMPLEXES



- learning various software applying computational methods (finite element method, finite difference method, finite volume method) to evaluate at an engineering stage how the created object will behave in its actual operation and above all in emergency modes,
- learning methods to increase reliability of mechanical elements of metallurgical machines and equipment, and applying such methods in practice,
- participating in research and development,
- participating in a design of new machines and units as part of technological complexes,
- defending PhD and DSc theses,
- acquiring required competence, becoming a professional and securing stable future.



History
Foreign language
Philosophy
Economics
Legal science
Culturology and cross-cultural communication
Team building and personal development
Life safety
Economics and machinery production
management
Mathematics
Physics

Ecology IT Theoretical mechanics Engineering graphics

Chemistry

Strength of materials Machine and mechanism theory Machine parts Materials science Construction materials engineering Design of process lines and complexes of metallurgical shops Metrology, standardization, certification, and fundamentals of compatibility Electrical engineering and electronics Principles of mechanical equipment design Fundamentals of mechanical engineering technologies **Technical system control** Thermodynamics and heat transfer Political and social science Physical education and sports Elective subjects on physical education and Elective courses on physical education and sports Adaptive courses on physical education and sports Foreign language for professional purposes Fundamentals of tribology **Fundamentals of research** Fundamentals of the theory of plasticity and fracture Design of steelmaking shop equipment Design of technological machines and

complexes for sintering and blast furnace processes

Design of technological machines and complexes for rolling processes
Design of hydraulic and pneumatic drive systems

Project activities
Promotion of research products
Fluid and gas mechanics
Introduction to the major

CAD

Metallurgical equipment operation
Design of metallurgical lifting and handling
machines

Project assessment of reliability of facilities
Design of technological machines and
complexes for drawing processes
Practical training for acquiring initial
professional competence and skills, including
initial research competence and skills
Industrial/technological practical training
Industrial/engineering practical training
Industrial pre-graduation practical training
Preparing for, and passing the state
examination

Preparing of, and defending the graduation thesis





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Dsc (Engineering), Head of the Department of Design and Operation of Metallurgical Machines and Equipment

#### **RESEARCH AREA:**

development of the theory of quality control for research and technological principles of manufacturing products from prospective, nanostructured steels and powder materials in metallurgy and metalware sector.



Prof. ANTSUPOV V.P., DSc (Engineering) **RESEARCH AREA:** 

increasing reliability and service life of metallurgical machine parts by strengthening and cladding techniques, improving lubrication systems and applying efficient lubricating materials.



Prof. TOCHILKIN V.V., DSc (Engineering) **RESEARCH AREA:** 

development of the theory and technology of casting alloys and processes.

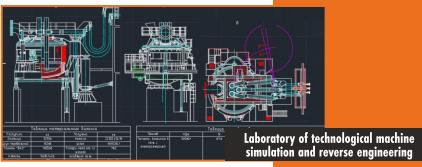


Assoc.Prof. RESHETNIKOVA E.S., PhD (Engineering) **RESEARCH AREA:** 

design of fastener manufacturing processes by stamping.

The specialty "Design of metallurgical machines and complexes" is the direction of training specialists who are engaged in the development, production and operation of machines, systems, drives and technological complexes. Students study engineering technology, welding, metal forming, computer technology in design and production. Graduates can carry out tests and put into operation new machines and complexes, provide the required technical equipment, carry out work related to the finishing and development of the equipment. Specialists work in design and design bureaus, research institutes, large industrial enterprises of metallurgy and machine building fields.











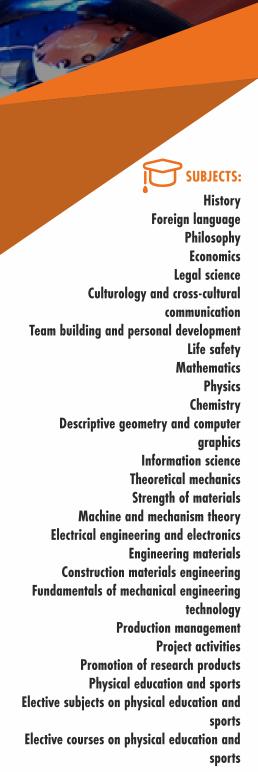
# The 4-year bachelor's degree programs

prepare students for advanced welding careers or positions as welding inspectors or instructors. Graduates of a bachelor's degree program may also qualify for additional industry certifications.



A specialist in welding is in demand in all industrial sectors: metallurgy, mechanical engineering, construction, oil and gas industry, nuclear power engineering, shipbuilding and many other industries.

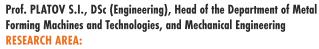
At the university our students learn how to design welded structures and welding equipment, develop technological manufacturing and welding processes for any structures, study processes of machine part recovery and strengthening, welding process automation and simulation applying modern software, learn how to control quality of welded products.



Adaptive courses on physical education and sports Foreign language for professional purposes Machine part recovery and strengthening CAD in welding Metal science in welding Welding structure production Theory of welding processes Design of welded structures Technological principles of fusion welding and pressure welding Electric resistance welding Welding of special steels and alloys Residual stresses and deformation during welding Continuum mechanics Machine parts Introduction to the course Welding and surfacing materials **Gas-thermal processing** Welded joint quality control Fundamentals of welding Design of assembling and welding accessories Special methods of joining materials Modern software for welding process simulation Supply sources for welding Practical training for acquiring initial professional competence and skills, including initial research competence and skills Industrial practical training for acquiring professional skills and professional experience Industrial pre-graduation practical training Preparing for, and passing the state examination Preparing of, and defending the graduation thesis







development of the theory and technology of designing machines, lines, and tools in metal forming processes.



Assoc.Prof. MIKHAILITSYN S.V., PhD (Engineering), the Department of Metal Forming Machines and Technologies, and Mechanical Engineering RESEARCH AREA:

development of new welding and surfacing materials and efficient welding technologies for high-strength steels.



Assoc.Prof. SHEKSHEEV M.A., PhD (Engineering), the Department of Metal Forming Machines and Technologies, and Mechanical Engineering RESEARCH AREA:

development of new welding and surfacing materials and efficient welding technologies for high-strength steels.



Assoc.Prof. DEMA R.R., PhD (Engineering), the Department of Metal Forming Machines and Technologies, and Mechanical Engineering RESEARCH AREA:

simulation and development of resource-saving technologies of a flat rolling complex to increase production efficiency.











# COURSE: DESIGN AND ENGINEERING SUPPORT OF MACHINERY PRODUCTION MAJOR: MECHANICAL ENGINEERING TECHNOLOGY



At the university our students learn manufacturing processes, study principles of designing parts, engineering and operation of machining equipment, cutting tools and measuring systems. They make engineering and graphic tasks and calculations of cutting modes and cutting tools, using a computer. At laboratory classes students develop manufacturing processes with regard to equipment of machine assembly shops, including development of control programs for machining units.

The department provides modern laboratories equipped with metal cutting machines, including CNC machines.

Our graduates work at all shops of Russian machine building and metallurgical plants (with repair divisions), at design and research institutes, universities and others.



Foreign language **Philosophy Economics** Legal science **Culturology and cross-cultural** communication Team building and personal development Life safety **Mathematics Physics** Descriptive geometry and computer graphics Information science Theoretical mechanics Strength of materials Machine and mechanism theory Machine parts **Production management** Metrology, standardization and certification

Fundamentals of mechanical engineering technology Forming processes and operations Promotion of research products CAD for technological processes Theory of metal cutting Physical education and sports Elective subjects on physical education and sports Elective courses on physical education and sports Adaptive courses on physical education and sports Foreign language for professional purposes **Project activities** Fundamentals of computer technologies Mathematical simulation of processes in mechanical engineering Quality management system at machine building plants Mechanical engineering technology Automation of manufacturing processes in mechanical engineering **Technological tools Cutting tools** Quality assurance methods in mechanical engineering **Modern tool materials** Fundamentals of technological system diagnosis Fundamentals of technological system reliability Theoretical mechanics **Electrical engineering and electronics Engineering materials** Machinery production equipment

Chemistry Manufacturing billets Technological processes in mechanical engineering Introduction to the course Introduction to the major Fundamentals of the theory of plasticity Fundamentals of processing parts with burnishing methods Processing of parts with highly concentrated energy flows Thermal processes in technological systems Fundamentals of tribology Fundamentals of the theory of fracture Welding equipment and technology Machine part recovery equipment and technology Design of mechanical shops Design of assembly shops **Equipment for manufacturing steel structures** Tools for manufacturing steel structures Physical and chemical dimensional processing of materials **Cutting materials with energy deposition Programming CNC machines** Robot-based manufacturing technology Steel structure manufacturing technology Assembly technology Practical training for acquiring initial professional competence and skills, including initial research competence and skills Industrial practical training for acquiring professional skills and professional experience Industrial pre-graduation practical training State final examination







Prof. OGARKOV N.N., DSc (Engineering), the Department of Metal Forming Machines and Technologies, and Mechanical Engineering RESEARCH AREA:

development of theoretical and technological principles of processing a tool and deformed metal to manufacture products with a high quality surface.



Assoc.Prof. NALIMOVA M.V., PhD (Engineering), the Department of Metal Forming Machines and Technologies, and Mechanical Engineering RESEARCH AREA:

development of theoretical and technological principles of forming and surface processing of metallurgical equipment parts to improve the quality of finished products and increase service life of processing tools



Assoc.Prof. KURGUZOV S.A., PhD (Engineering), the Department of Metal Forming Machines and Technologies, and Mechanical Engineering RESEARCH AREA:

resource-saving technologies in mechanical engineering.



Senior Lecturer ZVYAGINA E.YU., PhD (Engineering), the Department of Metal Forming Machines and Technologies, and Mechanical Engineering RESEARCH AREA:

improving the quality of automotive sheets.

We aim for all students to graduate from the Design and Engineering Support of Machinery Production programme with excellent technical and organisational skills in the development and engineering of complex and heterogeneous technical products.











Laboratory of simulation, cutting on CNC machines

# COMPANIES:

PJSC Magnitogorsk
Iron and Steel Works

**LLC Mechanical Repair Complex** 

CJSC Magnitogorsk Roll Manufacturing Plant

**PJSC AVTOVAZ** 

Stone Flower
Kushva Roll Manufacturing Plant

**KAMAZ** 

Baimak Foundry and Mechanical Plant Chelyabinsk Pipe Rolling Plant

Gazprom

Rosneft

Rosatom





















### STUDENTS FREE TIME

The educational and recreational center "Youth" is located in a picturesque place on the territory of Bashkortostan, not far from Yakty-Kul lake and the Metallurg-Magnitogorsk ski center (42 km from Magnitogorsk). You will plunge into the world of the fascinating nature of Bashkiria, with its fabulous forests, powerful mountains and amazing alleys far from the hustle and bustle of the city, .

Here students of NMSTU can enjoy not only a relaxing holiday, but also actively spend time in a cheerful company. There is a sports town on the territory of the recreation center, equipped with platforms:

- for playing volleyball;
- basketball;
- table tennis;
- gymnastics equipment.





unost.magtu.ru

#### **Contact Person:**

Vice Director on International Affiars of the
Metallurgy, Mechanical Engineering and Material Processing Institute
MARINA POTAPOVA

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