

NOSOV MAGNITOGORSK







NOSOV MAGNITOGORSK STATE TECHNICAL UNIVERSITY

Year of foundation - 1934 The University today is

- 12 434 students
- **800** academic staff
- 107- prof., D.Sc.
- 530 associate professors, Ph.D.)
- The average age of the academic staff is 46 years.

- 77 Bachelor's Degree courses;
- 31 Master's Degree programs;
- 18 postgraduate programs;
- 10 academic specialities at Doctorate Courses;
- **5** dissertation councils on 10 scientific specialties;
- more than 100 programs for continuing professional education and development;
- activity according to the principles of ISO and IQNET.















MAGNITOGORSK STATE

TECHNICAL

UNIVERSITY

University Structure

- Metallurgy, Mechanical Engineering and Materials Processing Institute
- Mining Engineering and Transport Institute
- Power Engineering and Automated Systems Institute
- Civil Engineering, Architecture and Arts Institute
- Economics and Management Institute
- Education Science, Psychology and Social Work Institute
- History, Philology and Foreign Language Institute
- Standardization, Chemistry and Bioengineering Institute
- Physical Education and Sports Mastery School
- "Horizon" Additional Professional Education and Personnel Engineering Institute
- Multidiscipline College



NOSOV MAGNITOGORSK STATE TECHNICAL UNIVERSITY

Science and innovation infrastructure

- Research & Development Centrer;
- NanoSteel Research Institute;
- Mechanics of Gradient Nanomaterials Laboratory;
- Microtopography Laboratory;
- Youth Science Center;
- Industrial Park;
- Office of Patent Information Management;
- Small Innovative Enterprises.











UNIVERSITY

University Strategic Development Directions and Priorities

- 1. Industry 4.0 technologies
- 2. Resource-efficient technologies to obtain new grades of steels
- 3. Design of of metalware technologies and products with the unique complex of physical and mechanical properties
- 4. Energy and resource saving technologies and equipment.
- 5. Sustainable use of natural resources, industrial and environmental safety management.
- 6. Standardization and quality control in metallurgy, mechanical engineering and material processing.



TECHNICAL UNIVERSITY

International activity in figures

- → 62 cooperation agreements with the universities from 34 countries;
- 500 foreign students from 10 countries;
- > 9 student's exchange programs;
- > 10 international projects TEMPUS, Erasmus funded with support from the European Commission;
- > 15 grants of the international programs

DAAD, Global Education, Russian President;



UNIVERSITY

NOSOV MAGNITOGORSK STATE TECHNICAL UNIVERSITY

Main Industrial partners





OUR ESTEEMED CHINESE PARTNERS



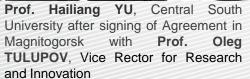




河北对外经贸职业学院

HEBEI INSTITUTE OF INTERNATIONAL BUSINESS AND ECONOMICS











Prof. Aleksey KORCHUNOV, Vice-Rector for International Affairs, with colleagues from The University of Science and Technology Beijing after signing of Agreement in Beijing





MISSION AND STRATEGIC GOALREFERENCE UNIVERSITY

iSmArt-metallurgy is: i - intellectual; S - Science; m - metallurgy; Art

The mission of MSTU is:

to create a regional business elite focused on creating scientific and innovative technologies in the field of **iSmArt**-metallurgy for the development of the cross-border South Ural region and Russia.

The strategic goal of the MSTU:

Transformation of the University into a center for creating breakthrough technologies and industries to improve the competitiveness, investment attractiveness and quality of life of the region's population.







PORTAL OF SCIENTIFIC AND TECHNOLOGICAL ENGINEERING

STRATEGIC PARTNERS

BIG DATA









НАУЧНО-ПРОИЗВОДСТВЕННОЕ ОБЪЕДИНЕНИЕ АНДРОИДНАЯ ТЕХНИКА









- Internet of things
- 3D production
- Predictive analytics
 - Data Mining, Process mining





PROJECT «iSmArt-METALLURGY»



R&D CENTER PROJECTS IN INDUSTRY 4.0









Industrial Exoskeletons
Interactive distance learning platform
Digital twin turbo generators
Digitalization of power plants
Machine vision for rolling Production
Digital quality laboratory
Big data analysis of steelmaking furnaces



PROJECT «iSmArt-METALLURGY»





PROMISING EXITS INNOVATION HUBMSTU – DANIELI







15 years of experience in human resources engineering allowed us to create the infrastructure of a customer-oriented innovation hub (Innovation Show & Research & Training Hub) and develop a methodology for joint (Mutual Smart Packages) promotion of cutting-edge innovations in the field of production technology, equipment, personnel training, technical support (service) for existing consumers and in the search for new partners.



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