
OPPORTUNITIES OF RUSSIAN ENGINEERING EDUCATION FOR COOPERATION IN SPACE



DEAR PARTNERS

We present you comprehensive information about the possibilities of Russian engineering education for cooperation in space

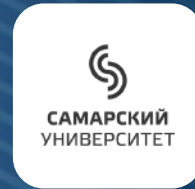
MAP OF SPACE ENGINEERING



MOSCOW AVIATION UNIVERSITY (NATIONAL RESEARCH UNIVERSITY)



BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY (NATIONAL RESEARCH UNIVERSITY)



SAMARA NATIONAL RESEARCH UNIVERSITY



MOSCOW STATE UNIVERSITY OF TECHNOLOGY "STANKIN"



MOSCOW POLYTECHNIC UNIVERSITY



TOMSK STATE UNIVERSITY OF CONTROL SYSTEMS AND RADIOELECTRONICS



SAINT PETERSBURG STATE UNIVERSITY OF AEROSPACE INSTRUMENTATION



VORONEZH STATE TECHNICAL UNIVERSITY



UNIVERSITIES IN RUSSIA

СОЗВЕЗДИЕ
РОСКОСМОСА

КОМПЛЕКС ПРОГРАММНО-МЕТОДИЧЕСКОГО ОБЕСПЕЧЕНИЯ



MOSCOW STATE UNIVERSITY
NAMED AFTER M.V.
LOMONOSOV



PERM NATIONAL RESEARCH
POLYTECHNIC UNIVERSITY



KAZAN (VOLGA REGION)
FEDERAL UNIVERSITY



NATIONAL RESEARCH
UNIVERSITY "MOSCOW POWER
ENGINEERING"



TOMSK STATE UNIVERSITY



AMUR STATE UNIVERSITY



OMSK STATE
TECHNICAL
UNIVERSITY



SOUTH URAL STATE
UNIVERSITY (NATIONAL
RESEARCH UNIVERSITY)



PEOPLE'S FRIENDSHIP
UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE
LUMUMBA





MOSCOW AVIATION INSTITUTE
(NATIONAL RESEARCH UNIVERSITY)

 Moscow



Website



MISSION

We create technologies that shape the future, prepare teams and leaders of changes



EDUCATIONAL PROGRAMS

- Design, production, testing, certification and operation of space systems
- Design of the MC
- Processing of data received from space
- On-board spacecraft systems
- Design of rocket engines
- Reliability and safety of rocket and space technology
- Ground-based complexes, launch equipment
- Development of new materials and additive technologies
- Development of special software



Bachelor's Degree programs



Master's Degree programs



INTERNATIONAL COOPERATION

The University actively updates and develops bachelor's and master's degree programs for more than 1800 international students in both Russian and English. Double degree programs in the field of rocket and space systems are being implemented jointly with foreign universities





BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY

(NATIONAL RESEARCH UNIVERSITY)

 Moscow



Website



MISSION

Engineers create future — we create engineers.

Our mission is to create scientific and technological future, educate new generations of Russian engineers, serve as a source of ideas, provide expertise and participate in the development and implementation equipment and technology for a sustainable future



EDUCATIONAL PROGRAMS

- Rocket and Space Technology
- Systems of Movement Control and Navigation
- testing of aircrafts
- Design, Manufacture and Operation of Rockets and Rocket-Space Systems
- Design of Aircraft and Rocket Engines
- Testing of aircrafts
- Navigation and ballistic support of space technology implementation
- Aircraft Control Systems



Bachelor's Degree programs



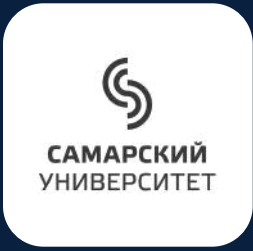
Master's Degree programs



INTERNATIONAL COOPERATION

International students have been studying at the University since 1952. For the optimization of their educational process, the Faculty of International Educational Programs was established in 2011. Today, more than 1600 international students are studying at the University, among them, 125 students are advanced qualification personnel training





SAMARA NATIONAL RESEARCH UNIVERSITY NAMED AFTER ACADEMICIAN S.P. KOROLEV

 Samara



Website



MISSION

The mission of our University is to be a leading scientific and educational center in the field of aerospace research and technologies. We create a unified educational space for scientific exploration in both fundamental and applied sciences, allowing us not only to design the future but also to implement it today



EDUCATIONAL PROGRAMS

- Applied Mathematics and Computer Science
- Mechanics and Mathematical Modeling
- Applied Mathematics and Physics
- Computer Science and Computer Machinery



Information for
international students



INTERNATIONAL COOPERATION

The University develops scientific and educational cooperation, providing an opportunity for more than 800 international students to master unique world-class aerospace and interdisciplinary skills. More than 100 scientific articles have been prepared jointly with foreign organizations





MOSCOW STATE UNIVERSITY NAMED AFETR M.V. LOMONOSOV

 Moscow



Website



MISSION

Faithful to the mission of the Moscow University, defined by Empress Elizabeth I in the Decree of 23 (12) January 1755 on the establishment of the Moscow University as the education of peoples "for the benefit of the common life of man, ... for the well-being of the whole Fatherland", Moscow University confirms its truth in the historical context of the 21st century. An important part of the learning process is the work of students on real projects of organizations in the domestic space industry



EDUCATIONAL PROGRAMS

- Fundamental Mathematics and Mechanics
- Applied Mathematics and Computer Science
- Mechanics and mathematical modeling
- State and municipal administration
- Differential equations, dynamical systems and optimal control
- Mathematical modeling, numerical methods and software packages

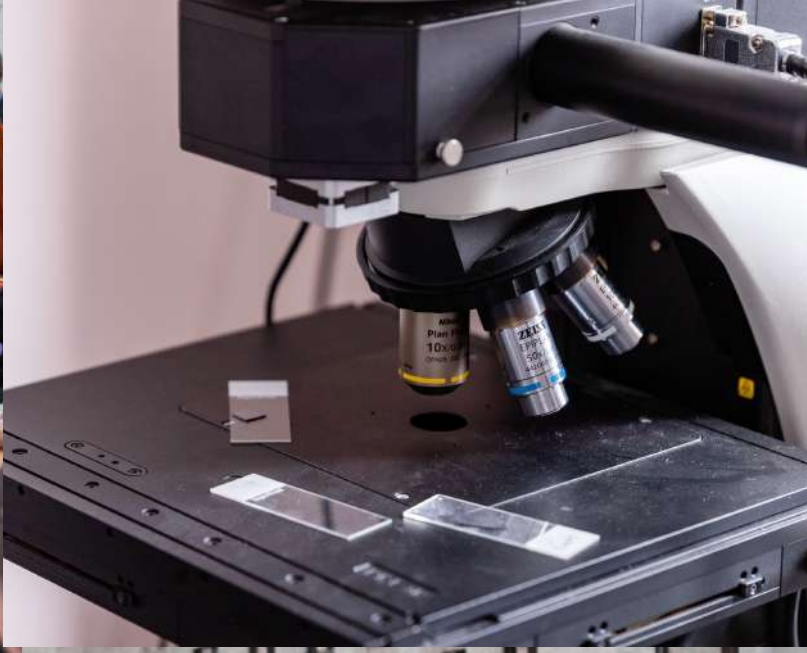


Information for
international students



INTERNATIONAL COOPERATION

Interaction with foreign universities is coordinated by the International Cooperation Office. More than 5,000 international students study at the University, including 500 students being trained for highly qualified personnel





PERM NATIONAL RESEARCH POLYTECHNIC UNIVERSITY

Perm



Website



MISSION

To develop an ecosystem integrated into the Russian and global academic and business environment, which allow everyone to build their own path to achievements that make the world a better place



EDUCATIONAL PROGRAMS

- Information Science and Computer Technology
- Power Engineering
- Mechanical Engineering
- Construction and Technological Support in Mechanical Engineering
- Materials Science and Technologies
- Aircraft and Rocket Engines Design
- Quality Management



Information for international students



INTERNATIONAL COOPERATION

The University implements cooperation with international partners from the CIS, BRICS and SCO countries. Conducts engineering training for more than 1200 foreign students, forms a system of early career guidance for foreign applicants in cooperation with foreign schools



 пермский
политех

Пространство твоих
свершений

 пермский
политех

Пространство твоих
свершений





KAZAN (VOLGA REGION) FEDERAL UNIVERSITY

 Kazan



Website



MISSION

To generate, concentrate and spread knowledge, competences and technologies in response to pertinent global challenges related to demographic issues, increasing life expectancy, climate change, environmental pollution and energy security



EDUCATIONAL PROGRAMS

- Mechanics and Mathematical Modelling
- Applied Mechanics
- Geodesy and Distant Zoning
- Physics
- Radiophysics
- Astronomy

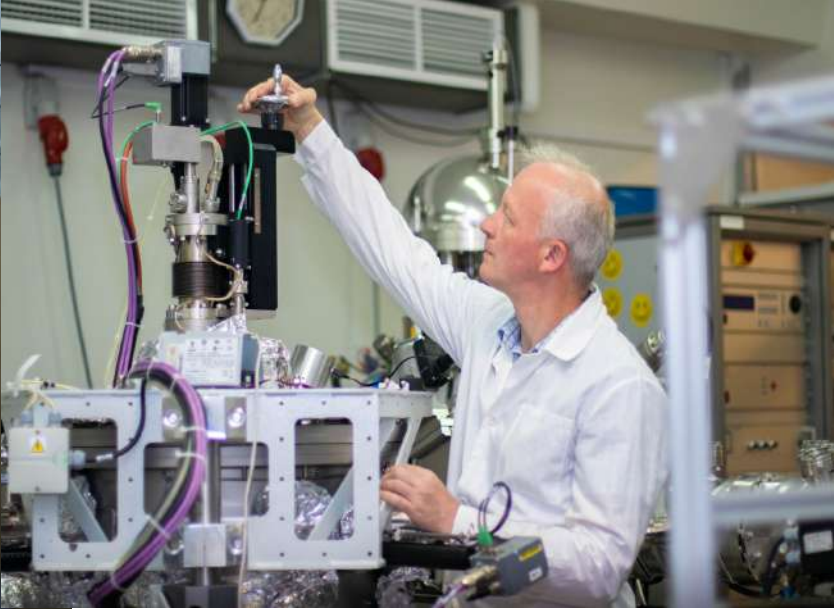
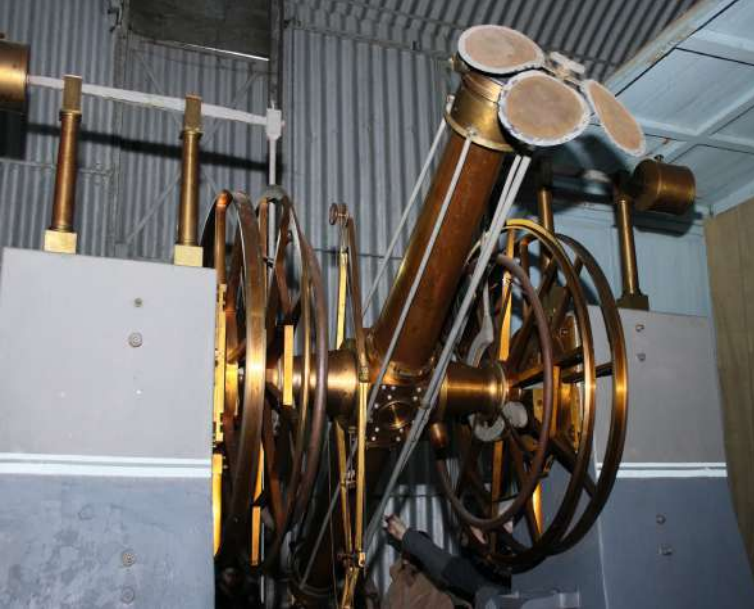


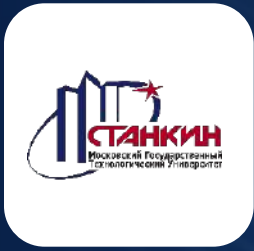
Information for
international students



INTERNATIONAL COOPERATION

The University provides admission, training, and adaptation services for foreign citizens. Currently, 7000 students from other countries are studying at the University, with more than 300 being trained for highly qualified personnel. Additionally, more than 1000 scientific papers have been published jointly with international partners





MOSCOW STATE UNIVERSITY OF TECHNOLOGY "STANKIN"

 Moscow



Website



MISSION

Developing the scientific, technical, and personnel potential of the mechanical engineering industry to enhance the global competitiveness of domestic mechanical engineering production in the context of shaping a new digital industry



EDUCATIONAL PROGRAMS

- Computer Science and Engineering
- Information systems and technologies
- Applied Informatics
- Applied Mathematics
- Software engineering
- Instrument Engineering
- Engineering
- Technological Machines and Equipment
- Automation of technological processes and production
- Design and Technology of Machine-Building industry
- Mechatronics and Robotics
- Design of technological machines and complexes
- Technospheric safety
- Materials science and technology of materials
- Standardization and Metrology
- Quality control
- Management in technical systems
- Economy
- Management
- Human Resources Management



Information for
international students



INTERNATIONAL COOPERATION

The University has been training foreign specialists since 1952. Currently, more than 800 students from 74 countries are studying. Graduates who have received the highest qualifications hold senior positions in foreign organizations



МОСКОВСКИЙ ГОСУДАРСТВЕННЫЙ ТЕХНОЛОГИЧЕСКИЙ УНИВЕРСИТЕТ





MOSCOW POLYTECHNIC UNIVERSITY

 Moscow



Website



MISSION

To create smart systems and operating mechanisms for the green economy, to unleash everyone's talents in an atmosphere of unity of technical science and creativity



EDUCATIONAL PROGRAMS

- Computer Science and Engineering
- Information systems and Technologies
- Thermal Power Engineering and Heating Engineering
- Mechanical Engineering
- Technological Machinery and Equipment
- Automation of Technological Processes and Productions
- Design and Technological Support of Mechanical Engineering Productions
- Quality Control in Industry



Information for international students



INTERNATIONAL COOPERATION

The University provides study opportunities for approximately 1,700 international students from 64 countries. International applicants can choose their desired program or training area from more than 75 programs offered



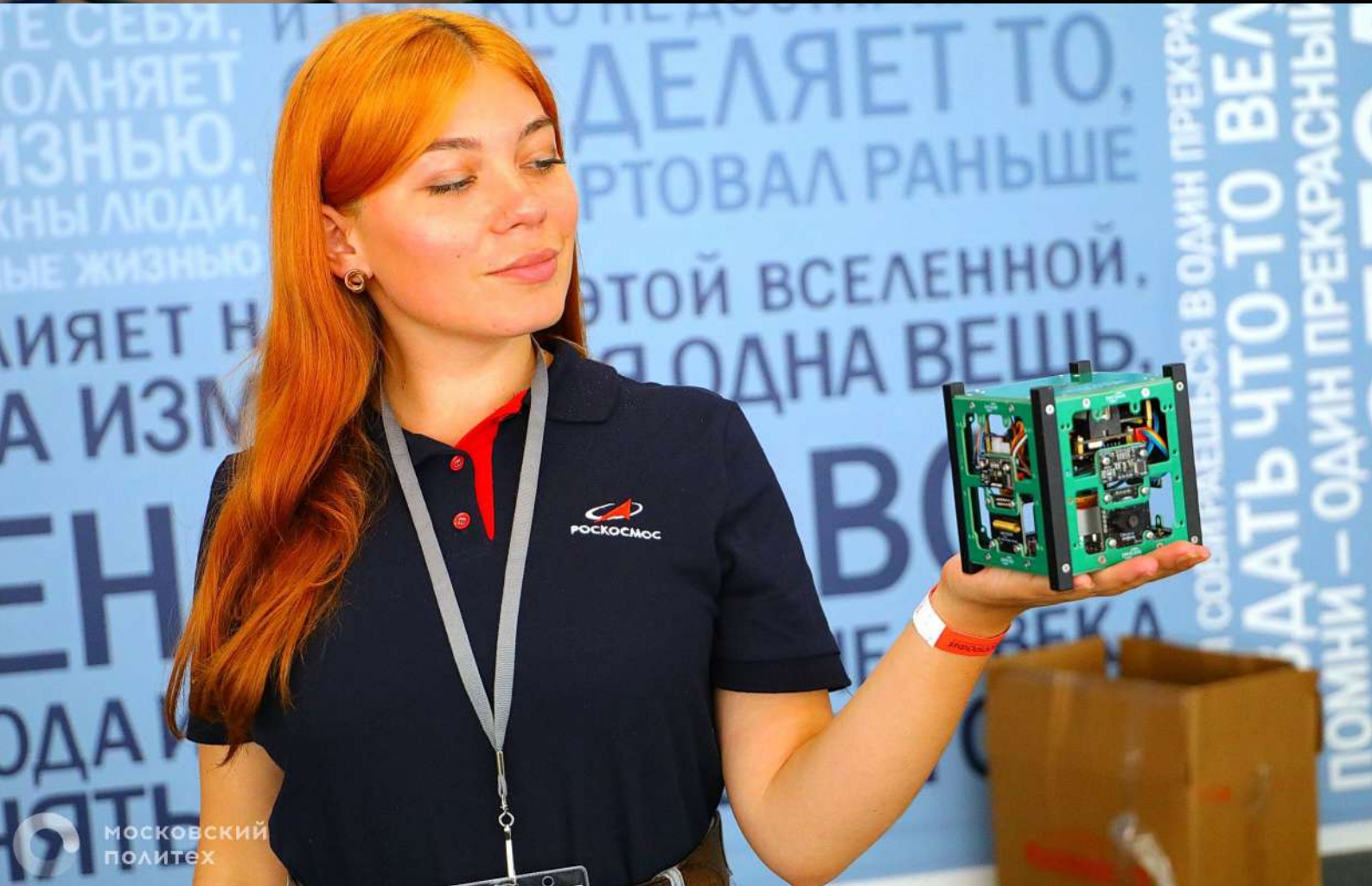
МОСКОВСКИЙ
ПОЛИТЕХ



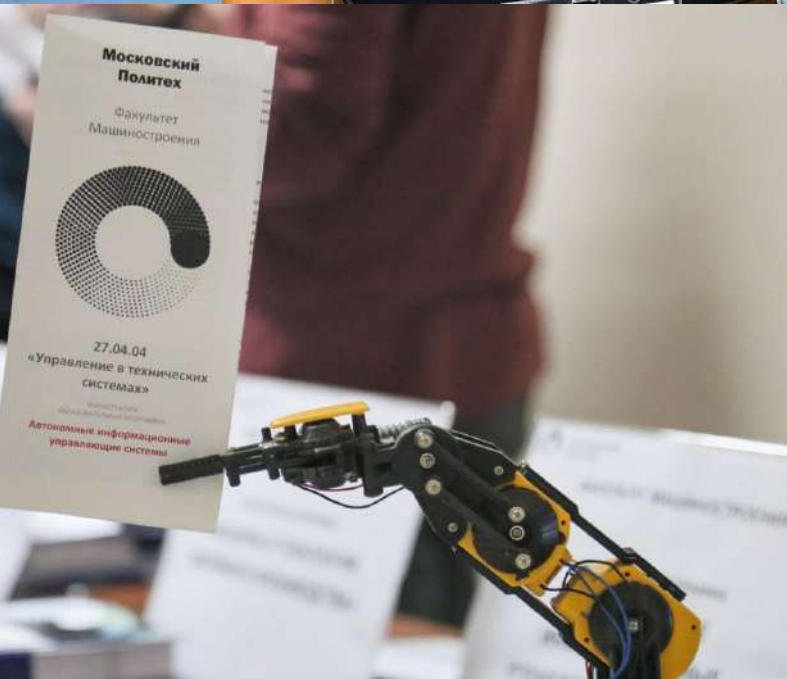
МОСКОВСКИЙ
ПОЛИТЕХ



МОСКОВСКИЙ
ПОЛИТЕХ



МОСКОВСКИЙ
ПОЛИТЕХ





MISSION

The University is a leader in training qualified personnel for high-tech sectors of the economy, aerospace, and defense industries of the country. It introduces innovative educational and research programs, applied developments of new equipment, apparatus, and control systems



EDUCATIONAL PROGRAMS

- Informatics and Computer Engineering
- Software Engineering
- Radio Engineering
- Design and Technology of Electronic Systems
- Electronics and Nanoelectronics
- Instrument Engineering
- Electricity and Electronics
- Machine Engineering
- Chemical Technology

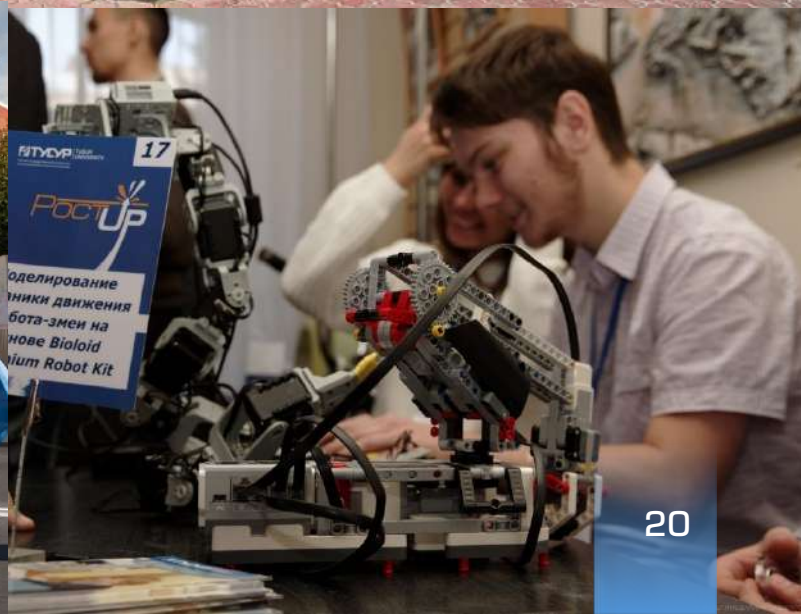


Information for international students



INTERNATIONAL COOPERATION

The University is traditionally one of the leading universities in national, regional, and international ranking lists in the fields of engineering, sciences, and computing. Currently, more than 2000 international students are studying at the University, with 100 students completing highly qualified personnel training





NATIONAL RESEARCH UNIVERSITY "MOSCOW POWER ENGINEERING"

Moscow



Website



MISSION

Fundamental comprehensive education and advanced technologies for the energy and innovative economy



EDUCATIONAL PROGRAMS

- Applied Mathematics and Informatics
- Radio Engineering
- Electronics and Nanoelectronics
- Radio Electronic Systems and Complexes
- Instrument Engineering
- Thermal Power Engineering and Heat Engineering
- Electric Power Engineering and Electric Equipment
- Power Engineering
- Machine Engineering
- Technological Machines and Equipment
- Quality Management



Information for
international students



INTERNETIONAL COOPERATION

The University has actively attracted international students since 1946 by offering various study programs. More than 1900 international students from over 100 countries have received Bachelor's and Master's degrees. More than 100 scientific papers have been published in cooperation with international partners





MISSION

The University joined the first group of winners in Research Leadership of the Priority 2030 program, which aims to enhance the competitiveness of Russian universities. Tomsk state university is the only non-metropolitan classical university to rank in the top five. Additionally, the University is one of six universities selected to participate in the Ministry of Science and Higher Education's pilot project to transform the Russian higher education system



EDUCATIONAL PROGRAMS

- Digital technologies of photonics and radiophysics
- Optical and Optoelectronic Devices
- Nanophotonic Devices
- Software for microprocessor systems
- Cyberphysical systems, applied electronics and quantum technologies
- Technologies for design and control of unmanned aircraft systems
- Software and hardware for unmanned aircraft systems
- Ballistics and fluid and aerodynamics
- Computer engineering of high-energy system. Computer technologies for designing rocket engines
- Computer engineering of high-energy system
- Ballistics of missile-barreled systems
- Fundamental physics
- Information systems and technologies in astronomy and space geodesy
- Fundamental and Applied Physics
- Information systems and technologies in space geodesy



Information for the foreign students



INTERNATIONAL COOPERATION

The University offers programs at three different levels, available in both Russian and English. Currently, Tomsk state university has over 1110 international students enrolled in engineering programs, with approximately 180 students pursuing advanced training. The University has collaborated on more than 800 research studies with international partners





AMUR STATE UNIVERSITY

 Blagoveshchensk



Website



MISSION

The University's mission is to provide high-quality education, develop the talents and skills of each student, and support the start of a successful career, contributing to the progress and prosperity of society. The University offers new opportunities for young people by creating jobs at the Vostochny cosmodrome, thereby contributing to the development of the Far Eastern region and strengthening international cooperation



EDUCATIONAL PROGRAMS

- Design, production and operation of rockets and rocket-space complexes (network program with the Moscow Aviation Institute (MAI))
- Manned and unmanned spacecraft and systems»
- Operation of launch and technical complexes and life support systems

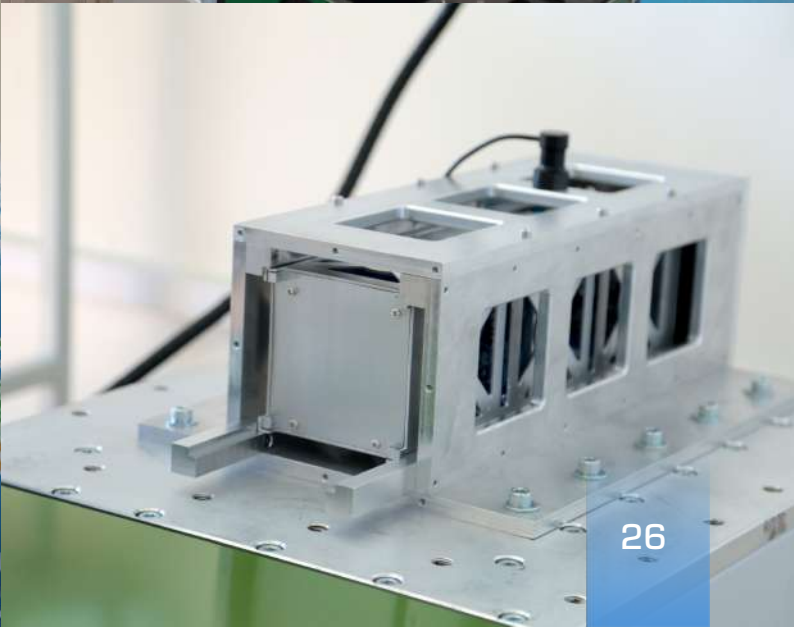
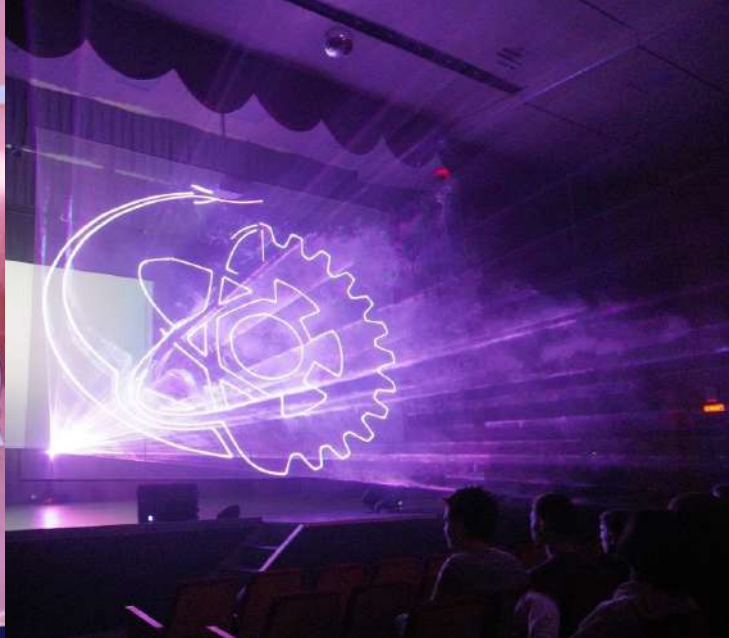


Information for
international students



INTERNATIONAL COOPERATION

Since 2013 Preparatory Department for International Students works at the University. The University collaborates with 30 international partners worldwide. Currently, more than 400 international students are studying at the University. Amur State University and Harbin Institute of Technology designed a Sino-Russian small space satellite "ASRTU Friendship"





SAINT PETERSBURG STATE UNIVERSITY OF AEROSPACE INSTRUMENTATION

 Saint Petersburg



Website



MISSION

Training of high-tech industry professionals capable of conducting research, developing and implementing advanced technologies, creating and developing industrial production, as well as the production and technological environment as a whole. The strategic goal of the University is to be one of the leaders in Russia in the field of applied engineering developments in the areas of aerospace, instrumentation, IT and Technosphere safety



EDUCATIONAL PROGRAMS

- Informatics and computer science
- Technology of aerospace instrumentation
- Aeronautical instruments and measuring-computing complexes
- Motion control and navigation systems
- Embedded Systems



Information for
international students



INTERNATIONAL COOPERATION

The University actively participates in International Research Programs, cooperates with International Space Technology Centers, ESA/ESTEC, world leading scientific and educational organizations and world leading universities. The University is known not only in Russia but also abroad, thanks to this more than 800 foreign students receive education on bachelor, specialist, master and postgraduate programs. Leading programs of the University have international accreditation ASIIN, there are programs entirely in English. The University is a member of the International Astronautical Federation, participates in the development of international space standards under the auspices of CCSDS





MISSION

Generation, dissemination, application and preservation of the scientific knowledge to solve the XXI global problems



EDUCATIONAL PROGRAMS

- Applied Mathematics and Informatics
- Mechanical and Mathematical Modeling
- Informatics and Computer Engineering
- Computer Safety
- Information Security of Telecommunication Systems
- Radio Electronic Systems and Complexes
- Electric Power Engineering and Electric Equipment
- Design and Technological Support of Mechanical Engineering Productions
- Machine Engineering
- Aero and Rocket Engine Design Engineering

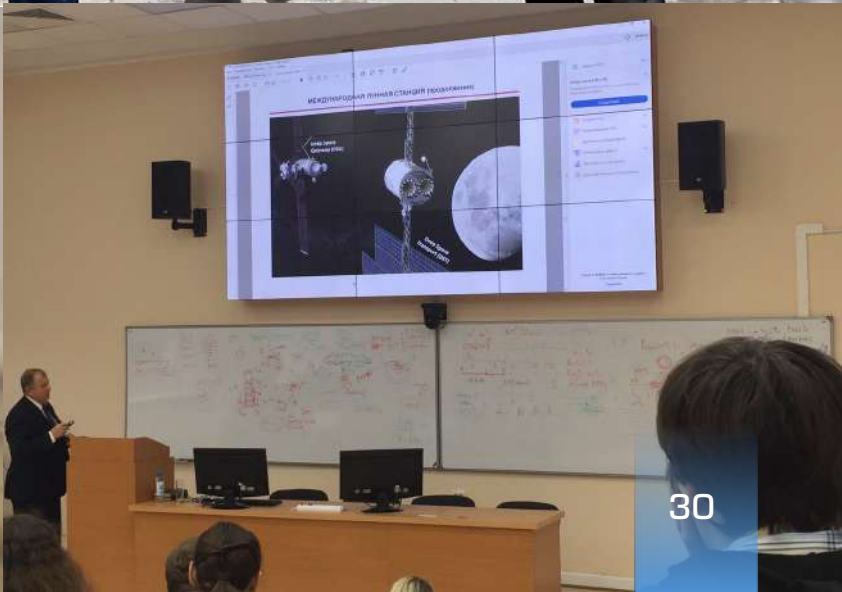


Information for international students



INTERNATIONAL COOPERATION

The University has been training international students since 1961. Today, more than 1000 students from 57 countries are studying at the University. The University is a member of the Association of European Civil Engineering Faculties (AECEF), the International Association of Civil Engineering Universities, and the Association of Higher Educational Institutions of the Russian Federation and the Republic of Azerbaijan





OMSK STATE TECHNICAL UNIVERSITY

 Omsk



Website



MISSION

Aggregation of best scientific, educational, socio-humanistic practices and their transformation into human capital through the relevant engineering education and entrepreneurship in multicultural and comfortable space of opportunities



EDUCATIONAL PROGRAMS

- Radio Engineering
- Electronics and Nanoelectronics
- Instrument Engineering
- Heat Power Engineering and Thermal Equipment
- Electric Power Engineering and Electric Equipment
- Machine Engineering
- Applied Mechanics
- Design and Technological Support of Mechanical Engineering Productions
- Rocket Systems and Astronautics
- Engineering
- Design Engineering, Production and Operation of Rockets and Aerospace Complexes



Information for international



INTERNATIONAL COOPERATION

More than 1200 international students simultaneously study or take internships at the University. The University is a member of several international educational organizations, including the European Association of Universities (EUA), the International Specialized Terminology Organization (ISTO), and the European Association for Terminology (EAFT)





SOUTH URAL STATE UNIVERSITY
(NATIONAL RESEARCH UNIVERSITY)

 Chelyabinsk



Website



MISSION

Creation and application of scientific knowledge and preparation of a new generation of leaders capable of solving global tasks on sustainable development and changing this world for better



EDUCATIONAL PROGRAMS

- Software Engineering
- Electronics Design and Technology
- Radio Electronic Systems and Complexes
- Instrument Engineering
- Thermal Power Engineering and Heat Engineering
- Electric Power Engineering and Electrical Engineering
- Machine Engineering
- Automation of Technological Processes and Production
- Design and Technological Support of Mechanical Engineering Productions
- Design engineering, production and operation of rockets and aerospace complexes
- Aero and rocket engine design engineering
- Mechanics and Mathematical Modeling

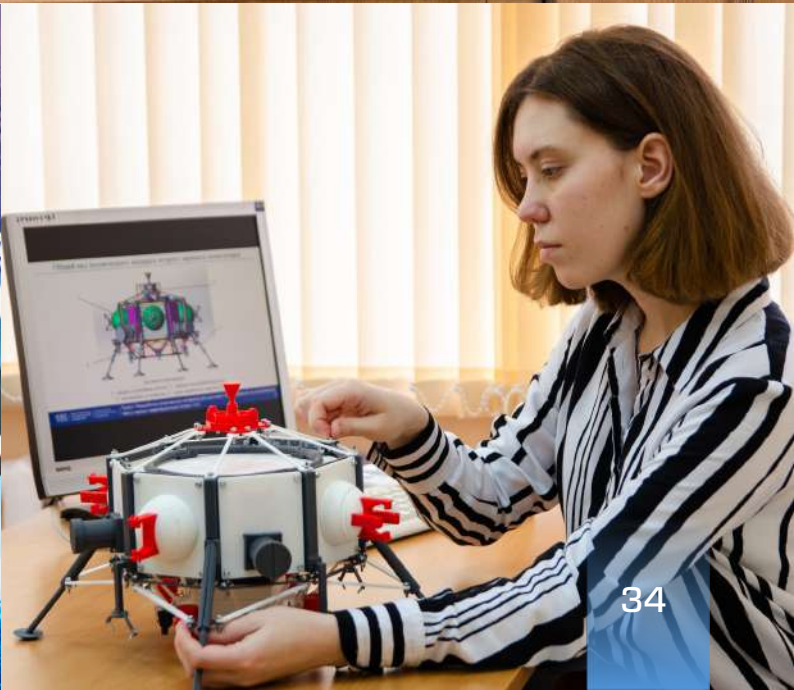
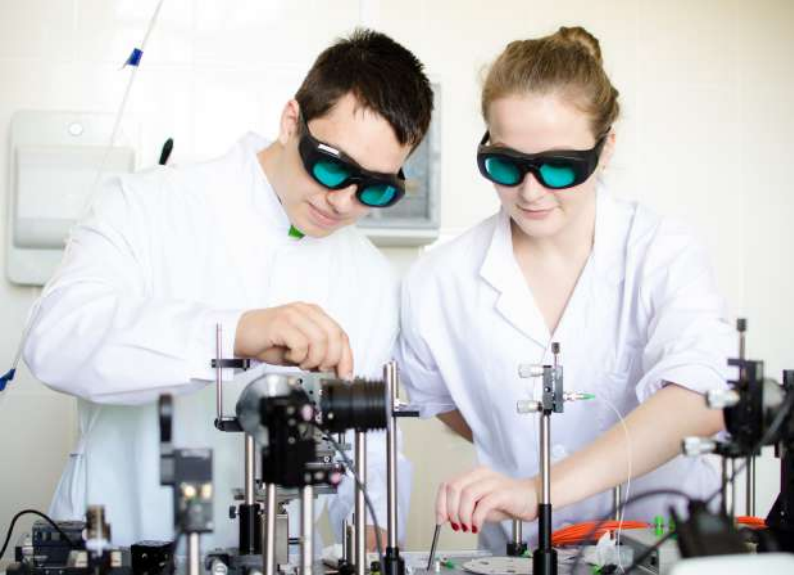
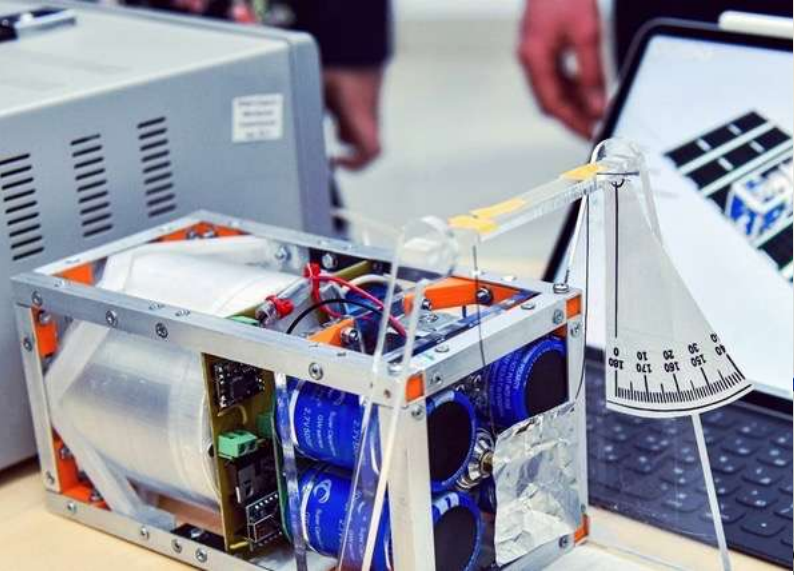


Information for
international students



INTERNATIONAL COOPERATION

Nowadays, the University prepares more than 1800 international students. International cooperation is actively conducted with representatives of more than 50 leading educational, scientific, and industrial organizations from 18 countries. More than 2000 scientific papers have been published jointly with international partners





PEOPLE'S FRIENDSHIP UNIVERSITY OF RUSSIA NAMED AFTER PATRICE LUMUMBA

 Moscow



Website



MISSION

The University shapes leaders who make the world better by uniting people of different cultures with knowledge



EDUCATIONAL PROGRAMS

- Dynamics, Ballistics, Control of Motion of Aircraft and Spacecraft
- Applied Mathematics and Computer Science
- Fundamental Informatics and Information Technologies
- Technological Design of Machine-Building Production
- Nanotechnology and Microsystem Engineering
- System analysis, management and information processing
- Control in Technical Systems
- Artificial Intelligence and Machine Learning
- Civil Engineering and Architecture
- Design of Architectural Environment
- Applied Geology, Mining, Oil and Gas Engineering and Geodesy
- Earth Sciences
- Operation of transport and technological machines and complexes
- Power Engineering



Information for
international students



INTERNATIONAL COOPERATION

The University unites more than 9000 international students, including more than 2200 students being trained as highly qualified personnel. It implements 114 joint international educational programs in cooperation with foreign universities



ИНЖЕНЕРНЫЕ ТЕХНОЛОГИИ

Думай иначе!

- Технологии машиностроения и приборостроения
- Геология, горное и нефтегазовое дело
- Строительство гражданских, промышленных и гидротехнических сооружений
- Искусственный интеллект и робототехнические системы
- Нанотехнологии и микроэлектроника
- Проектирование миссий и систем

сервизные пространственные конструкции зданий



**FOR DETAILS ON THE POSSIBILITIES OF RUSSIAN
ENGINEERING EDUCATION FOR SPACE COOPERATION
PLEASE CONTACT US:**

