



# Polzunov Altai State Technical University **Welcome!**



[www.altstu.ru](http://www.altstu.ru)

Dear applicants, I am happy to welcome you to Polzunov Altai State Technical University. We are one of Russia's biggest universities, built on the foundation of rich history and tradition.

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Our university first opened its doors in 1942. We approach higher education with a combination of tradition and cutting edge advances in both teaching and science. Our multi-level education system meets the modern standards and demands of the labor market: we keep track of the trends and aptly update our undergraduate and masters-level training programs every year without losing sight of tradition at the same time.

Many employers find the diploma of Altai State Technical University a compelling argument in favor of professionalism of a potential employee, which further proves the high quality of education provided by AltSTU.

I am sure this brochure found its way into your



hands for a reason – you are most likely looking to pursue quality education in Russia. Our university offers learning that challenges, stimulates and fulfills the potential of its students, and becoming one depends on your resilience and skill alone. I hope you choose to make your first professional step here, at AltSTU, so that you may graduate from one of Russia's finest universities and kickstart a brilliant career in the field of your choice. I wish you good luck and hope to see you in our university!

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Andrei Mikhailovich Markov  
Rector of AltSTU



## About Our University

Altai State Technical University (AltSTU) is one of Russia's leading universities. We offer 4-year undergraduate courses, 2-year masters courses, 3-year postgraduate and doctoral courses in 67 training programs.






AltSTU offers student, academic and scientific exchange programs in partnership with universities and colleges in France, Italy, China, Mongolia, Vietnam, Kazakhstan, Kyrgyzstan and others. Both our undergraduate and postgraduate students excel in international competitions in STEM and liberal arts. AltSTU is home to 20 thousand students, with over 900 of them coming from all over the world.







The faculty employs 73 Doctors of Sciences and 380 Candidates of Sciences.



AltSTU is in the  
top 100 of Russia's  
best universities

## AltSTU in ratings

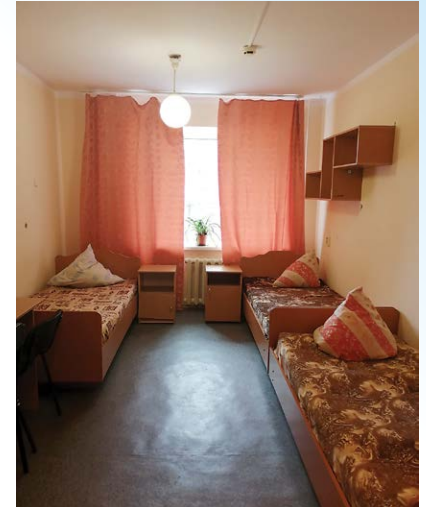
Rating	Place	Date
<p>QS University Rankings: Eastern Europe and Central Asia</p> 	251–300	September 2019
<p>Webometrics</p> 	<p>Country Rank: 128 World Ranking: 4758</p>	September 2019
<p>Engineering and Technolo- gy University Ranking</p> 	13	2018
<p>Vladimir Potanin Foundation University rating</p> 	20	2017–2018
<p>RAEX Rating Agency Ranking of STEM Universities (Science, Technology, Engineering and Mathematics)</p> 	34	2018

Rating	Place	Date
<p>Interfax National University Rating</p> 	160–161	2019
<p>UI GreenMetric World University Ranking</p> 	<p>Country rank: 27 World rank: 542</p>	2018
<p>Academic Ranking of World Universities- European Standard ARES-2019</p> 	BB+ (74)	2019
<p>SuperJob Technical University Ranking (based on the salaries of graduates employed by IT industry)</p> 	19	2019
<p>RUSOFT University Ranking for Russian Software Industry</p> 	42–51	2017
<p>Demand-Based Russian University Ranking</p> 	55	2018

## Housing, dining and safety

AltSTU provides international students with comfortable housing opportunities. International students live together in double or triple rooms.

The rooms carry all the necessities: a bed, a desk, chairs, a wardrobe, shelves, bedside tables, a fridge, a microwave, an electric kettle, a TV. Each floor has a kitchen and a common room.



### On-campus housing costs:

- \$400 (27 250 rubles) a year for improved accommodation;
- \$140 (9 890 rubles) a year for economy accommodation.

International students share the dormitory with local students, which provides them with a perfect opportunity to practice their Russian in an informal setting outside the classroom.

All campus buildings are under 24-hour security surveillance.

The infrastructure of the dormitory vicinity offers grocery stores, a pharmacy, a student cafeteria and multiple cafes offering Russian, Middle Eastern and European cuisine.



## Pre-University courses for International Students

Applicants who are not proficient in Russian may undertake an intensive language course (1–1.5 years) to achieve A1-A2-B1 levels.

The students follow the curriculum to continue their education at one of the faculties of AltSTU or other Russian university. They study the Russian language and subjects specific to their future major:

- STEM: mathematics, physics, computer science;
- biomedical science: chemistry, biology;
- liberal arts: literature, country studies, history;
- economics: mathematics, economics, computer science, social studies.

The classes begin in September and end on June 25, followed by Russian language and major subjects examinations. Students receive a Pre-University Course Certificate upon completion.



International students who have successfully completed the pre-university courses may take an entrance examination for one of AltSTU Faculties or continue their Russian studies via a 1- or 2-year academic program "Russian language and the basics of translation and interpretation" to achieve B2-C1 levels.

Career opportunities upon completing the program include working as a translator or interpreter in various business, state or tourism organizations.

Students study Russian grammar, business communication, stylistics, the basics of translation and acquire basic knowledge of Russia as a country. The course puts a special emphasis on oral communication: the classes are often carried out in a speaking-club atmosphere where other native speakers are invited.

The classes begin on September 1 and end in July. Upon completing the course, students are awarded a Certificate of Supplementary Education.

## AltSTU Campus

The university campus sits in the city center and includes several buildings connected through sheltered passageways.

International students take their pre-university courses in a new modern building fully equipped with computer and language labs, multimedia facilities and conference rooms.



## Medical services and insurance



International students will have to purchase their own insurance. Basic insurance costs range from \$70 to \$80 (5500 RUB) a year. The insurance company covers the entire treatment period and hospital stay (if such is required).

AltSTU has an on-campus walk-in clinic. There, students may receive pre-medical and first aid assistance as well as make use of preventive health care, medical screening and dental services.

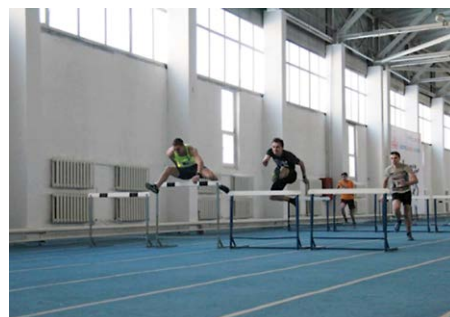
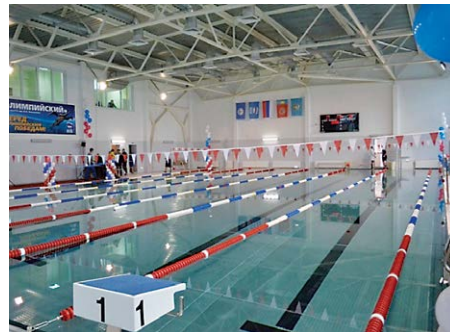


## Sports

AltSTU has its own athletics hall and swimming pool, where students are welcome to engage in a variety of sports activities.

AltSTU is home to over 20 sports clubs with students practicing powerlifting, heavy lifting, swimming, Greco-Roman wrestling, volleyball, basketball, hockey and other types of sports.

The facility is equipped with a 25 meter long 6 lane swimming pool. Student classes are held on weekdays. In the evenings and on weekends the pool is open to the public.



## Cultural life

AltSTU has a rich cultural life thanks to its very own center for culture and creativity. By becoming a member of one of AltSTU's creative unions, students get the chance to represent the university at a variety of competitions: local, national and international. Engaging in cultural life at AltSTU is a perfect opportunity for creative types to fulfill their artistic potential in many areas, be it dancing, singing, music or theater.



# The city of Barnaul

Today, Barnaul is a major transportation hub and Siberia’s buzzing industrial, cultural and educational center. Barnaul is a city of students, hosting many universities and branch campuses from all over Russia. It is home to Polzunov Altai State Technical University, Altai State University, Altai State Pedagogical University, Altai State Medical University, Altai State Agricultural University, Altai State Institute of Culture, Barnaul Institute of Law. The city’s population stands at over 850,000.

Polzunov Altai State Technical University sits at the city center, surrounded by parks and cultural landmarks. Strolling down Barnaul’s main Lenina Street, you will find yourself on the Ob river bank. If you are looking to do some shopping, the vicinity offers a variety of shops and shopping malls. Food enthusiasts will enjoy cafes that serve cuisines from all over the world, including ethnic ones, with Uyghur cuisine serving as a great example. The average cafe bill starts at around 150-200 roubles.

The campus can be reached by any public transport that goes through the “AltSTU” stop. The average public transport fare is 25 roubles, while intracity taxi fare stands at around 150-200 roubles. AltSTU offers free airport transfer to international students from both Barnaul airport and Tolmachevo airport in Novosibirsk.

Cell phone providers in Barnaul include MTS, Beeline, TELE-2, Megafon and others. Plan prices start at 100 roubles.



## Average prices for food and services in Barnaul

Transport	
Bus fare	30 rub
Tram fare	28 rub
Intracity taxi fare	150-300 rub
Entertainment	
Movie ticket	150-350 rub
Theater ticket	200-600 rub
Museum ticket	0-100 rub
Nightclub entry fee	100-300 rub
Swimming pool (1 hour)	200 rub
Services	
Hair salon	250-400 rub

Dry-cleaner's	From 300 rub
Studio/one-bedroom apartment	12000-20000 rub /a month
Meals	
Lunch at AltSTU cafeteria	
Soup	500-80 rub
Second course	60-150 rub
Set menu at a cafe	150-250 rub
Lunch at a cafe (for one person)	200-400 rub
\$1 = 77 roubles	

## Altai Krai: tourist hub and natural marvel



Altai Krai sits in the south-east of Western Siberia, just a few steps away from China and Mongolia and is indeed a natural marvel.

Tourists come to Altai Krai all year round. Belokurikha is the region's main resort, famous for its healing air and mineral springs. The treatments offered at Belokurikha's many health retreats use local natural resources such as honey, herbs and peloids among other things.

Hiking is a very popular outdoor activity in Altai Krai, since it is the best way to enjoy local nature in all its variety: vast steppes, taiga forests or mountain ranges. June, July and August are considered the best months for hiking.

Equestrian tourism serves as a good alternative to hiking. One such trip may take for 3 to 15 days depending on the itinerary. If you want to see wildlife sanctuaries and secluded ravines untouched by civilization, horseback is the best way to do it.

When it comes to adventure tourism, rafting is especially popular, since Altai Krai has many mountain rivers that simply beg to be tamed.

December marks the start of mountain skiing season at Altai Krai resorts with March bringing it to a close. Snow levels typically rise up to 1 meter, creating a perfect coverage for ski lovers. Soft climate makes spending time outside all the more pleasant. Altai is home to several winter sports resorts, with most notable ones located in Belokurikha, on Lake Manzherok, at the foothills of Vesnyolaya Mountain near Aya village and on Turquoise Katun.



## Training programs and specializations

### AltSTU welcomes international students to the following faculties:

- Civil Engineering Faculty
- Power Engineering Faculty
- Information Technologies Faculty
- Institute for Biotechnology, Food and Chemical Engineering
- Institute of Architecture and Design

- Power Machine-Building and Road Transport Faculty
- Institute of Economics and Management
- Institute of Advanced Professional Education and Development
- Pre-university courses for international students

Tuition fees range from 93,500 RUB to 137,500 RUB.

### Faculty of Special Technologies

#### Training program: Innovation

##### Specialization: Innovative Project Management

**You will study** organization and management of innovative processes in technology.

**Possible careers:** planning engineer, production engineer, innovation management specialist.

**Employment:** any area of business or industry that deals with innovation.

#### Training program: Materials Science and Engineering

##### Specialization: Composite Materials

**You will study** specifics of modern composite materials, their manufacturing, shaping and structurization processes as well as transformational changes that occur during manufacturing, processing and operation of composite materials.

**Possible careers:** composite material and materials science research engineer.

**Employment:** any industry where composite materials are used; e.g. aerospace industry, automotive industry, electronic engineering, construction work, power industry, biomedicine.



#### Training program: Applied Physics

##### Specialization: Physical and Chemical Properties of Materials

**You will study** the ways of researching, developing and using the most advanced materials that reduce the material and pollution intensity of production and increase durability of modern equipment.

**Possible careers:** instrumenta-

tion and control engineer, production engineer, materials science research engineer, chemical or physical laboratory assistant.

**Employment:** automotive industry plants and facilities, materials research and development facilities, materials science laboratories.

### **Training program: Design and Engineering Solutions in Machinery Production**

#### **Specialization: Mechanical Engineering Technology**

**You will study** STEM subjects (science, technology, engineering and mathematics), use of modern CAD- and CAM-systems, operation procedures for numerical control machines, 3D-printers and laser equipment.

**Possible careers:** planning engineer, production engineer, numerical control machines programmer.

**Employment:** any machine-building industry facility that deals with national defense and manufactures equipment for other industries.

### **Training program: Mechanical Engineering**

#### **Specialization: Welding Engineering Equipment and Technology**

**You will study** production, technology and



planning processes in welding engineering; modern planning methods and their uses in developing and maintaining technological processes; mathematical, physical and computer modelling methods; mechanization and automation tools, methods of introducing automation into manufacturing processes, control methods.

**Possible careers:** welding engineer, technological tools engineer, mechanization and automation of machine-building facilities specialist, technical documents specialist, standartization and certification specialist.

**Employment:** machine-building facilities.

#### **Specialization: Machine Building and Foundry Engineering Technology**

**You will study** foundry, moulding and casting techniques used in machine building industry as well as casting methods used in production of gold and silver ware, jewelry and ironwork.

**Possible careers:** foundry engineer, iron and steel industry specialist, mechanization and automation of machine-building facilities specialist.

**Employment:** machine-building facilities.

## Institute for Biotechnology, Food and Chemical Engineering

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### **Training program: Production Machinery and Equipment**

#### **Specialization: Food Industry Machines and Procedures**

**You will study** engineering and operation of various types of manufacturing equipment that is used in food industry.

**Possible careers:** mid-level managing positions (machine-shop manager, section management, department manager, service manager, engineer) at a food manufacturing facility (from small businesses to holding groups; state supervision agency specialist or inspector; managerial or engineering positions with food industry equipment manufacturers.

**Employment:** milling plants, grain processing facilities, meat processing plants, butter-making plants, seed oil production plants, bread-baking plants, confectionaries, pasta factories, cheese and dairy factories, grain depots, feed mills, distilleries, beer factories.

### **Training program: Use of Raw Plant Materials in Food Production**

#### **Specialization: Modern Technologies in Raw Plant Materials Processing**

**You will study** grain storage and processing technology; bread, confectionaries and pasta manufacturing technology; wine-making and brewing technology.

**Possible careers:** production engineer at a grain depot, milling, grain processing, bread-baking plant, confectionary, distillery or beer factory.

**Employment:** beer factories; distilleries; wineries; soft drink manufacturing facilities; wholesale trade of alcoholic beverages; engineering companies; research and development facilities and laboratories; product/raw material certification and identification bodies, trade/tax inspectorates overseeing the production and trade of alcoholic beverages; grain storage and processing inspectorates; bread manufacturing control agencies.

### **Training program: Food Technology and Catering Arrangement**

#### **Specialization: Food Technology in Catering**

**You will study** different ways of organizing catering; engineering, design and reconstruction of catering facilities; logistics and supply chain management; methods of monitoring the performance of catering facilities; professional ethics.

**Possible careers:** catering technology specialist.

**Employment:** restaurants, cafes, hotel facilities.

### **Training program: Use of Raw Animal Material in Food Production**

#### **Specialization: Meat and Dairy Products Technology**

**You will study** organizational methods for effective maintenance of technological processes in manufacturing meat and dairy products, methods of assessing its innovative potential; preparation of documents on managing the quality of technological processes; methods of monitoring the environmental safety of manufacturing processes; scientific

and engineering efforts in designing, developing and implementing new technological processes; ways of engineering and developing new food products.

**Possible careers:** meat and dairy products technologist or engineer.

**Employment:** meat and dairy processing facilities; research and development facilities; milk and dairy processing equipment machine building facilities; equipment installation, adjustment and maintenance organizations or facilities; raw material and product quality control facilities, research institutes for cheese-making.



**Training program: Energy- and Resource-Efficient Processes in Chemical Technology, Petrochemistry and Biotechnology**

**Specialization:**  
**Environmental Engineering**

**You will study** methods of efficient environmental protection within production or manufacturing sites, environmental safety requirements for various types of said sites as well as ways of implementing and enforcing these requirements at said sites.

**Possible careers:** environmental engineer at a production or manufacturing site.

**Employment:** environmental authorities and services, various manufacturing facilities, project organizations that provide environmental services, developing environmental documentation, environmental assessment and audit.

**Training program: Chemical Engineering**

**Specialization: Chemical Engineering Technology**

**You will study** creation, technological support and operation of industrial production of basic inorganic substances, polymeric materials and various products made of them, building materials, oil products, gas and solid fuel processing, energysaturated materials and products based on them, medicines.

**Possible careers:** technologist at plastic and elastomer processing facilities; new products and equipment tooling engineer; chemist at a factory laboratory.

**Employment:** rubber products, car tires, perfume and cosmetics manufacturers; polymer processing facilities; polymer-based product manufacturing facilities; fertilizer manufacturers; dry construction mix manufacturers; industries involved in synthesis of inorganic substances and oil refining.

**Training program: Light Industry Product Development**

**Specialization: Sewn Products Design**

**You will study** ways of preparing, planning and effective management of the processes involved in designing clothes, shoes, leather, fur and leather goods of various purposes.

**Possible career:** tailor, fashion designer, costume designer.

**Employment:** clothing factories, tailors ateliers, sole proprietorship.

## Information Technologies Faculty

### **Training program:** **Computer Science and Engineering**

#### **Specialization: Software and Hardware Solutions For Automated Systems**

**You will study** modern technologies for designing and developing software and hardware components of computing systems, networks, automated systems, various automation tools (webinterface-based included), mobile technologies, microcontrollers and other microprocessor and computer equipment; design, programming, repair, setup and maintenance of computer systems, networks and technical equipment that utilizes various means of computing and microprocessor technology.

**Possible careers:** programmer, reverse engineer, automated systems software and hardware developer, service manager, system administrator, analyst.

**Employment:** state and private enterprises and organizations, any enterprise that has an information technology department.

### **Training program: Instrumentation Technology**

#### **Specialization: Information Technology for Performance Measurement**

**You will study** the specifics of working with automation tools and control systems, software, information and measuring technologies; acquire skills for modeling measuring systems and processes; the market has a high demand for grad-

uates specializing in IT for Performance Measurement.

**Possible careers:** fiber optic data reception and transmission systems engineer; engineer specializing in satellite navigation systems used for monitoring and efficient management of road and rail transport, industrial Internet of things, energy-saving technology in fuel industry (central heating and power plants), housing and communal services and construction, "smart home" systems, mobile-based measuring technology (smartphones, tablets); specialists in setting up, servicing and repairing modern medical equipment.

**Employment:** IT companies; engineering systems development companies (security, climate control, nautical monitoring systems); telecommunication and/or communication enterprises; power



industry facilities; information system development for financial institutions (banks); consultant system development companies; IT outsourcing companies; large-scale medical facilities.

## **Training program: Information Technology in Business**

### **Specialization: Digital Economy**

**You will study** e-business and its infrastructure (hardware, software, communication, human capital, etc.) as well as e-commerce; upon graduation, you will have a set of professional skills in information technology, economics and management.

**Possible careers:** analyst; expert in identification and resolution of economic problems who utilizes the help of modern information systems and digital technologies; business process automation specialist; project manager; training and consult-



ing specialist; economist; 1C programmer; support engineer.

**Employment:** corporate entities and nonprofit organization; state institutions and organizations; IT departments with enterprises and companies of various nature; economic sector.

## **Training program: Applied Information Science**

### **Specialization: Applied Information Science in Economics**

**You will study** development and maintenance of information systems at production sites and economic and social entities.

**Possible careers:** programmer, 1C programmer, engineer, web-programmer, system administrator, 1C consultant, IT specialist, head of IT department, analyst, manager, economist, university professor.

**Employment:** small, medium-sized and large business enterprises; financial institutions; state organizations.

## **Training program: Program Engineering**

### **Specialization: Software and Information System Development**

**You will study** design, programming and operation of computer programs and information systems; design, programming, testing, computerization and automation of applied processes; formalizing the subject domain of the project; software development techniques and drafting methods with a focus on safety, reliability and quality; ways of using operation systems, network technology, programming interface development tools; database management systems; mathematic modelling.

**Possible careers:** any position that involves developing and implementing information technology, such as a programmer, software architect, tester, system analyst, system programmer.

**Employment:** organizations and institutions working in the field of information technology systems development and implementation.

### **Training program:** **Cyber Security**

#### **Specialization:** **Cyber Security Management Techniques**

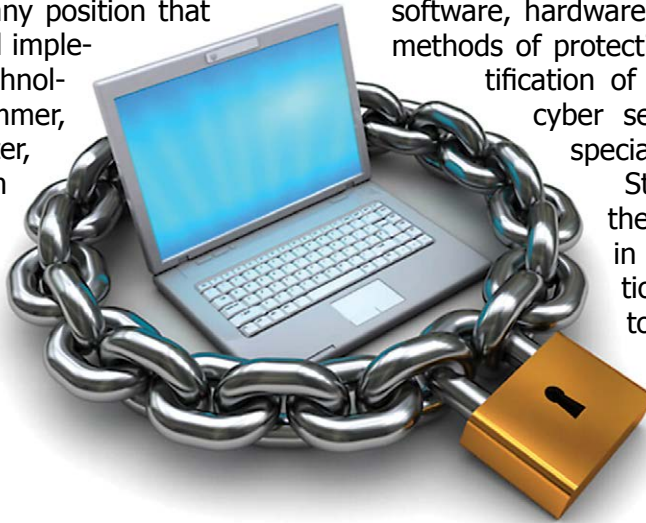
**You will study** computer systems manipulation; automated systems manipulation; information systems manipulation as well as communication and telecommunication systems manipulation; modern programming languages, techniques and methods; regulatory and legal framework of cyber security; safety and security arrangements for complex cyber security measures used in information systems and computer networks; software, hardware, technological and cryptographic methods of protecting information; fundamentals of computer networks administration.

**Possible careers:** cyber security officers; equipment installation, adjustment, repair and maintenance engineers specializing in software and hardware cyber security measures; complex cyber security systems designed for organizations using

software, hardware and cryptographic means and methods of protecting information; audit and certification of automated systems specialist; cyber security norms and regulations specialist.

Students also receive sufficient theoretical and practical training in information and communication technology to allow them to choose careers in system administration, database administration, programming, software development, hardware development, web application development, automated information system development for all intents and purposes.

**Employment:** national and local government agencies, financial and commercial organizations and institutions.



## Power Machine-Building and Road Transport Faculty

### **Training program: Transportation and Handling Equipment and Structures Maintenance**

#### **Specialization: Motor Vehicles and Vehicle Fleet**

**You will study** and acquire technical skills as well as the means of justifying engineering solutions; organizational management skills for transportation and technology facilities.

**Possible careers:** transportation engineer, transportation safety within a machine-building facility, garage manager, vehicle maintenance and repair engineer.

**Employment:** technical and commercial departments with motor transport enterprises; vehicle maintenance facilities; insurance companies; car dealerships (Toyota, Mercedes, Honda, BMW, Ford, Volkswagen, etc.), security agencies and ministries, maintenance and repair parts distributors.

### **Training program: Power Engineering**

#### **Specialization: Internal Combustion Engines**

**You will study** fundamentals of design of units and assemblies of power plants with internal combustion engines, their manufacturing technology; research and maintenance of highly efficient, environmentally friendly reciprocating and combined internal combustion engines for vehicles and surface transport power installations as well as small-scale mechanization.



**Possible careers:** internal combustion engine structure engineer; internal combustion engine system planning engineer.

**Employment:** engineering offices, laboratories, production facilities, repair and operation facilities in any industry that uses and manufactures combustion engine operated power equipment.

#### **Specialization: Boilers, Steam Generators and Combustion Chambers For Atomic Power Plants**

**You will study** maintenance and construction of machinery and units for the production, conversion and consumption of various forms of energy such as steam and hot water boilers and waste heat boilers; steam generators; combustion chambers; nuclear reactors and power plants, heat exchangers.

**Possible careers:** construction engineer, planning engineer, structural engineer, technical engineering department specialist, engineer-inspector, thermal and mechanical equipment engineer.

**Employment:** engineering offices, research and development facilities, installation and maintenance facilities, thermal stations, energy equipment production facilities, small-scale and mid-scale power industry facilities.

### **Training program:**

### **Surface Transport and Technology**

#### **Specialization: Motor Cars and Tractors**

**You will study** and acquire fundamental scientific, technical, engineering and mathematical knowledge; learn the fundamentals of designing cars and tracked vehicles using computer simulation. Theoretical knowledge is acquired during practical training sessions at leading enterprises of Russia.

**Possible careers:** any position that involves designing, manufacturing, testing, operating, repairing and maintaining cars, tractors and other mobile machines.

**Employment:** automobile and tractor manufacturing plants, motor transport enterprises, technical service stations for cars and tractors, insurance companies, tuning firms, law enforcement agencies.

### **Specialization:**

#### **Agricultural Business Technology**

**You will study** fundamentals of designing, manufacturing and servicing machinery using agricultural machinery as an example, developing effective technical solutions for the design, manufacture and operation of various agricultural machinery and equipment. Practical work experience is gained during practical training at the leading enterprises of agricultural engineering in Russia, as well as in the service departments of organizations implementing agricultural machinery. The faculty has a

student design bureau, where students gain additional professional experience.

**Possible careers:** planning engineer specializing in design and calculation, production technologist, test research engineer, operation engineer, repair and maintenance of agricultural machinery and other transport and technological vehicles.

**Employment:** facilities specializing in manufacturing agricultural machinery and other types of transportation and processing machinery, as well as at maintenance and repair facilities.

### **Training program:**

### **Transportation Process Technology**

#### **Specialization: Transportation Safety**

**You will study** fundamentals of developing effective schemes for organizing the movement of vehicles and pedestrians; application of the latest information technology systems in traffic management and develop them using computer programs; fundamentals of developing modern intellectual systems of road traffic control; traffic roads operating procedures; means of managing transportation and logistics processes; fundamentals of traffic accidents analysis.

**Possible careers:** road safety specialist; road safety operator; transport processes specialist; transportation of goods and passengers specialist; international transport specialist; transport management specialist; traffic roads design, maintenance and operation specialist.

**Employment:** traffic police; traffic safety institutions; logistics centers; marketing services; road maintenance organizations; trucking enterprises; driving schools; expert bureaus and insurance companies.

## Civil Engineering Faculty

### Training program: Construction

#### Specialization: Traffic Road Construction

**You will study** planning, construction, restoration, repair works, extensive repair works and operation of motorways, highways, traffic roads, support structures (minor bridges, intermediate axles) and water sluices.

**Possible careers:** foreman, construction site supervisor, section engineer (supervisor), production department engineer, test engineer, concept engineer, structure engineer.

**Employment:** construction and operation organizations, construction laboratories for testing road-building materials, municipal organizations and institutions.

#### Specialization: Industrial and Civil Engineering

**You will study** planning, construction, opera-



tion and restoration of various buildings, structures and other construction industry objects.

**Possible careers:** foreman, construction site supervisor, concept engineer, structure engineer.

**Employment:** architecture and design organizations; design and survey contractors; engineering companies; top management positions in construction companies; construction industry institutions; housing and communal service institutions; customer supervisions and inspection agencies; state and private construction and development companies.

#### Specialization: Production and Use of Construction Materials, Units and Structures

**You will study** design, manufacture and use of construction materials, units and structures; market assessment of materials and structures.

**Possible careers:** planning engineer for manufacturing construction materials, units and structures; foreman; process engineer; production de-

partment supervisor for a construction materials, units and structures manufacturer.

**Employment:** construction materials manufacturing plants; reinforced concrete structures manufacturing plants; planning, construction and installation, trade companies.

### Specialization: Public Utility Services Engineering and Construction

**You will study** planning, construction, operation and restoration of engineering systems in various buildings and structures, such as water and sanitation systems, central heating systems, heat supply systems, gas supply systems, ventilation and air conditioning systems, "smart home" systems.

**Possible careers:** structural engineer; assembling engineer; water supply, sanitation, gas supply, heat supply, ventilation system engineer/operator.

**Employment:** engineering companies, construction and installation companies, operation companies, municipal institutions and organizations dealing with public utility services.

### Training program: Construction of Complex Buildings and Structures

#### Specialization: High-Rise Building Construction

**You will study** planning, construction, operation and restoration of high-rise buildings and structures, including compiling, classification and analysis of benchmark data for buildings, engineering systems and equipment; project development in compliance with the order and corresponding norms and standards; quality control during construction; technical documentation drafting; installation, adjustment, balancing and commissioning of construction projects.



**Possible careers:** concept engineer, installation and construction work specialist.

**Employment:** engineering companies, construction and installation companies, operation companies, municipal institutions and organizations involved in construction and development industry.

## Power Engineering Faculty

### **Training program: Power Industry and Electrical Engineering**

#### **Specialization: Electrical Equipment and Maintenance For Enterprises, Organizations and Institutions**

**You will study** operation and maintenance procedures for electric power systems and networks, including electrical power stations and substations, electrical facilities and networks for institutions and organizations, low voltage and high voltage electrical equipment, electrical engineering installations, power electronics, insulating materials and installations.

**Possible careers:** electrical safety specialist; electric shielding specialist who understands the issues of energy preservation and efficiency of industrial technologies, as well as capable of designing electrical installations and networks based on renewable sources.

**Employment:** power/manufacturing industry.

#### **Specialization: Electrical Drive and Automation**

**You will study** automatic devices and systems for controlling energy flows; electric machines, installations and electric heating devices; electric drives and automation of mechanisms and technological complexes in industrial, household and agricultural settings; automated electric power systems; converter equipment; electric power drives; technological and auxiliary installations; numerically controlled machine tools, their automation, control and diagnostic systems.



**Possible careers:** circuit solutions development engineer, electric drive engineer, converter equipment operator, microprocessor control system developer.

**Employment:** power/manufacturing industry.

#### **Specialization: Electrical Power Supply**

**You will study** electrical installations, supply and distribution networks, including step-down and converter substations, which supply electricity directly to industrial facilities, their technological complexes and electrical receivers of enterprises of all technological purposes, as well as cities and towns, agricultural regions and production facilities.

**Possible careers:** electrical systems maintenance specialist or manager; energy security specialist, engineers; electrical power research specialist; researcher of self-generated power supply and power plants operating on wind or solar energy.

**Employment:** power/manufacturing industry.

## Institute of Economics and Management

### Training program: Economy

#### Specialization: World Economy

**You will study** international commercial transactions, export and import contract preparation, implementation and analysis, currency transactions, exchange transactions, international payments.

**Possible careers:** international commercial transactions manager, customs representative, desk economist, accountant, business manager, logistics manager, marketing director.

**Employment:** export and import enterprises, international commercial organizations, currency control offices, international transactions departments, international transportation and logistics companies, etc.

#### Specialization: Digital Finance

**You will study** blockchain algorithms and mathematics, currency and cryptocurrency transactions on credit, accounts of actual and virtual currency turnover, digital payment systems and processes, remote monitoring of insurance systems, ebanking, etc.

**Possible careers:** business development manager, business analyst, finance technology manager, digital marketing manager.

**Employment:** E-commerce, business enterprises, etc.

### Training program: Management

#### Specialization: Production Management

**You will study** the ways of conducting a comprehensive financial and econom-

ic analysis of corporate activity based on economic expediency of a managerial decision.

**Possible careers:** economic manager, analyst, forecaster, business manager, CEO.

**Employment:** any economics position at an enterprise or organization.

#### Specialization: Small Business Management

**You will study** an integrated set of professional and personal competencies that ensure the competitiveness of enterprises on the market as well as their sustainable development.

**Possible careers:** business analyst, business consultant, project or department manager, entrepreneur, entrepreneurial team member, head manager, etc. This specialization is also a good start for launching and growing your own business enterprise.

**Employment:** various small and medium-sized business enterprises.



## Institute of Architecture and Design

### **Training program: Architectural Environment Design**

#### **Specialization: Integrated Design of Architectural Environments**

**You will study** ways of developing complex public structure projects, architectural planning of urban and rural settlements; interior design and ways of developing a distinctive visual style for community and industrial building complexes; landscape and environment design.

**Possible careers:** architectural designer, university professor in architecture, chief city architect, etc.

**Employment:** architecture studios, construction bureaus, architectural design institutions; architecture colleges/faculties, etc.; organization and management institutions (buildings, civil engineering committees, etc.).

### **Training program: Architecture**

#### **Specialization: Architectural Engineering**

**You will study** the art of handling the living space inside buildings, structures, cities and settlements and learn to develop viable architectural solutions for residential, community and industrial buildings as well as city-planning solutions for rural and urban objects while complying to existing norms and regulations.

**Possible careers:** residential architect, commercial architect, industrial architect, restoration architect, interior design architect, urban design architect, research architect, chief city architect, university professor in architecture, etc.

**Employment:** architecture studios, construction bureaus; architecture colleges/faculties, etc.; organization and management institutions (buildings, civil engineering committees, etc.).

### **Training program: Design**

#### **Specialization: Graphic Design**

**You will study** different ways of creating competitive products in printing and advertisement industries, develop your conceptual thinking, artistic and decorative skills as well as learn and practice the fundamentals of graphic design such as composition, visual hierarchy, etc.

**Possible careers:** graphic designer.

**Employment:** print shops, publishing houses, creative workshops, advertisement agencies.



## How to apply

There are five steps to complete admission process:

### STEP 1: TO FILL IN AltSTU APPLICATION FORM

Please download the application form (from [www.altstu.ru](http://www.altstu.ru)), fill it in and e-mail to [imos2013@inbox.ru](mailto:imos2013@inbox.ru)

### STEP 2: HOW TO GET AN INVITATION LETTER

To get the invitation letter, we require the following documents:

- copy of the passport (validity to be at least 1.5 years before the date of entering the Russian territory) translated into Russian;
- copy of the secondary school certificate or higher education diploma (with subject details) translated into Russian.

The documents can be scanned and emailed us. Please note that the documents should be scanned properly in order to be readable. We will inform you about any issues with the submitted documents by email.

Invitations are issued by Police and it takes 20 week days to issue the invitation letter. We will send you a copy of the invitation letter by email, and you can get the original invitation letter in the Russian Embassy or Consulate in the country of your stay.

### STEP 3: VISA

Having received the invitation letter from AltSTU, you should contact the nearest Russian Embassy or Consulate in your country and provide documents according to the Embassy requirements.

### STEP 4: ARRIVAL CONFIRMATION

Having received the visa from the Russian Em-

bassy or Consulate, you should inform us about your arrival date and time at least 10 days before coming to Russia.

**NB!** If you apply for Bachelor's or Master's Degree program you should arrive to University till August, 10 for admission tests.

### STEP 5: ARRIVAL, ADMISSION AND START OF CLASSES

Having arrived at AltSTU you should submit the original documents with the certified translation and the Full First year Payment Receipt.

It is compulsory for every student to be registered at University within three days after arrival at the Russian Federation. The Department of Visas, Invitations and Registration of Foreign Nationals staff will complete the registration processes. Afterwards international students are to submit the educational certificates to Admission Office. You are allowed to start classes when all the formal processes are finished.

Documents to be submitted:

- Passport (validity to be at least 1.5 years before the date of entering the Russian territory) and copy of all its pages with certified translation.
- Migration card stamped by the customs.
- Original of the secondary school certificate or higher education diploma (legalized by the Ministry of Foreign Affairs and the Russian Embassy or with Apostille stamp) with subject details and its copy with a certified translation.
- 6 passport size photos (30 x 40 mm).

## Additional information

Academic year in Russia typically lasts for 10 months and is divided into two semesters. The first semester runs from September 1 till January 31 while the second semester runs from February 1 till June 30. Breaks are scheduled after each semester.

International students willing to undertake an undergraduate or masters course are required to take an entrance examination or admission testing which typically start in June. In view of this, we recommend you start applying for an invitation no later than March.

Russian language courses do not require you to take an entrance exam, you will be enrolled as soon as study groups are formed starting from September through November.

Once you have been admitted to our university, you have the right to attend lectures, seminars and training sessions along with other students at the Faculty of your choice.

One class ("double period") consists of two academic hours. One academic hour equals 45 minutes.

The Dean's Office of your Faculty will issue you a student ID and an academic record book. You are



required to carry your student ID at all times, since this is your entry permit to the university.

Your ID also gives you discounts at many museums, theaters and cinemas. Remember to carry your student ID and academic record book during the examination period. Your student ID proves your identity while the academic record book is used by professors for issuing you grades for your exams. Both regular and pass/fail exams may be conducted in oral or written form.

**NB! Students are required to attend all of the**

### **classes assigned by the curriculum!**

The assessment system used for higher education in Russia is as follows:

- **excellent**
- **good**
- **satisfactory**
- **unsatisfactory**
- **pass/fail**

The lowest passing score is 3 (satisfactory) and "pass." Students are allowed to move to the next year of education and get a diploma only if they have achieved the passing scores in all of the subjects on the curriculum.

## Notes

This image shows a full page of blank handwriting practice paper. It features multiple sets of horizontal lines. Each set consists of three lines: a solid top line, a dashed middle line, and a solid bottom line. These sets are repeated down the entire page to provide a guide for letter height and placement. The paper is otherwise completely blank, with no text or markings.



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