Siberian Federal University is a major research centre and the largest university in Eastern Siberia. The university’s top priority is academic research and development, resulting in influential publications in a wide scope of disciplines. Excellence in research at a national and international level is supported with reliable access to information sources provided by the university library, access to research instruments and tools, internal funding and grant competitions, research laboratories, doctoral academic mobility programmes, regular conferences and workshops. Siberian Federal University introduced SibFU PhD degree in 2014, and offers double degree programmes with a number of international partners. We are pleased to host research collaboration of Russian researchers and international scientists. The university would like to invite early career researchers to join our Graduate School to become a part of the university’s research community.

Maxim Rumyantsev
Rector, Siberian Federal University
Siberian Federal University is among the top twenty universities in the Russian Federation. It includes twenty one school and three branches with twenty six thousand students, 709 doctoral students, and two thousand faculty members. Annually, Siberian Federal University completes 500 research projects in 60 disciplines, including seventy theoretical projects and 400 projects developing applications in various areas. Siberian Federal University is a local research hub for studying the Arctic. The university hosts five major research laboratories led by international scientists and twenty one innovative company pursuing knowledge transfer in the region. Siberian Federal University publishes a peer-reviewed journal which includes five series such as “Humanities and Social Sciences”, “Mathematics and Physics”, “Biology”, “Chemistry”, “Engineering and Technologies”. The journal publishes research papers in Russian and in English. The university has signed partnership agreements with institutions from forty eight countries.
The Doctoral School is an important part of teaching skilled workers to prepare them for jobs in education, high technologies and a wide variety of intellectually intensive occupations.

**Doctoral School**

The Doctoral School is a tertiary level of education in the Russian Federation. It includes an educational part and research projects. The results of research projects become a part of the doctoral thesis, get published in peer reviewed journals and presented at national and international conferences. The educational part includes study modules, teaching practice, internships and final exams. International students have an opportunity to study the Russian language.

Intermediate attestation happens twice a year. It includes exams and a mid-year/end of the year research report presented at departmental meetings. We offer appropriate supervisory support with an opportunity to identify a potential supervisor and to do research at Siberian Federal University and at the institutes of the Russian Academy of Sciences, Siberian Branch. The university has steady collaborations with a variety of companies in different areas. Its research centers allow doctoral students to use their research in practical applications.

- **29** disciplines
- **105** study programmes
- **350** research supervisors
To receive a PhD degree, doctoral students submit their thesis to an examining committee. After successful completion of a viva examination and an approval of the procedures by the Higher Attestation Committee, graduates receive their PhD certificates.

The university has signed agreements of partnerships with a number of international universities, has introduced the SibFU PhD degree and double diploma programmes. The entry requirement for doctoral programmes is a masters or specialists degree.

Submitting a thesis and receiving a PhD degree is possible without completing educational modules. This is a three year programme that follows research tracks/doctoral programmes where completion can be examined by the university examining councils.

**Strategic Research Areas:**

- Nuclear and space technologies
- Industrial biotechnologies
- Genetics and RNA - research
- Chemistry of rare earth metals
- Oil and gas exploration, hydrocarbons transportation and processing
- Intelligent energy systems for Eastern Siberia
- Information and telecommunication technologies, networks and navigation
- Sustainable environmental management and development, cultural heritage of the Arctic and northern territories.

**Examining Committees**

- 18

**Doctoral Programmes**

- 37

**Research Laboratories**

- 159
The main university campus is in a picturesque pine forest. The university campus in Krasnoyarsk includes thirty comfortable student residences, twenty-four study buildings, a library, congress hall, sports centre, and medical centre. Large environmental parks with wonderful views on the city and its surroundings are within a walking distance. The university boasts excellent sports infrastructure which includes five sports centers, twelve gyms, nine open stadiums, two skiing centers and a sports camp in a wildlife area.
Dr Olga Cherepanova
Associate Professor
Head, School of Mathematics and Computer Science
math@sfu-kras.ru

Mathematics and Mechanics
01.06.01

Graduates pursue international careers in research into Mathematics, Mechanics and Computer Science.

Doctoral Programmes:

- 01.01.01  Real Analysis, Complex Analysis, Functional Analysis
- 01.01.02  Differential Equations, Dynamical Systems, Optimal Control
- 01.01.06  Mathematical Logic, Algebra, Number Theory
- 01.01.07  Computational Mathematics
- 01.01.09  Discrete Mathematics and Cybernetics
Our doctoral students focus on developing concepts, research questions and models in mathematics and physics. They work with numerical algorithms, algebraic systems and logical calculus. They use experimental approaches to study the properties of materials in physics, chemistry and wherever the methods of pure mathematics, applied mathematics, mechanics and other sciences can be applied.

Our graduates’ career paths usually bring them to research intensive high tech industries, such as defense, space exploration, machine building, research into new materials, construction, analytics, financial and business industries, and institutions of higher education.

Doctoral students work on their research projects at the laboratories of the School of Mathematics and Computer Science and the laboratories of the Institute of Computational Modelling, Russian Academy of Sciences, Siberian Branch.

- This is a 4-year PhD programme provided in Russian or English with an option of a 5-year PhD programme for distant learners.

- Entry requirements: a masters degree in mathematics, research experience, proficiency to at least level B2 of English or Russian.

- We offer comfortable student residences, pre-sessional Russian courses and thesis examination by Siberian Federal University’s Examining Committees.
Computer Science and Information Studies

02.06.01

Graduates pursue careers in research into a high-impact field of digital technologies

Doctoral Programmes:

- 05.13.01 Systems Analysis, Data Management and Processing
- 05.13.17 Theoretical Computer Science
- 05.13.18 Mathematical Modeling, Numerical Methods, Software Engineering

Dr Alexey Kytmanov
Head, School of Space and Information Technologies
ikit@sfu-kras.ru
Our doctoral students focus on developing concepts, research questions and models in mathematics and physics. They work with numerical algorithms and develop software. They use experimental approaches to study the properties of materials in physics, chemistry and other sciences.

Our graduates have gone on to work in research intensive high tech industries, such as defense, space exploration, machine building, research into new materials, analytics, and scientific research institutes.

Our staff and students are engaged in research in how data are captured, stored and processed, including data modeling, analysis, and optimization, improvement of data management and data-driven decision making. We conduct research across a wide range of disciplines, developing mathematical models for applications in physics, chemistry, biology, social science, economics and technology.

The programme is hosted by the School of Space and Information Technologies which supports over ten research labs and provides specialist software and hardware. We offer over twenty supervisors with various research interests, ranging from PhDs to full professors.

- Entry requirements: a masters degree in mathematics, research experience, proficiency to at least level B2 of English or Russian.

We offer comfortable student residences, pre-sessional Russian courses and thesis examinations by Siberian Federal University’s Examining Committees.
Physics and Astronomy
03.06.01

Graduates pursue international careers in research into Physics and Astronomy.

**Doctoral Programmes:**

- 01.04.02 Theoretical Physics
- 01.04.03 Radio Physics
- 01.04.05 Optics
- 01.04.07 Condensed Matter Physics
- 01.04.11 Magnetism
- 01.04.14 Thermal Physics and the Foundations of Energy Engineering
- 01.04.17 Chemical Physics, Combustion Science, Extreme Conditions Physics
Our doctoral students focus on the different types of physical systems and their functionalities, including physical, engineering, biophysical, chemical, medical systems, and technological systems for protecting the environment. They also do expert consulting and monitor how physical systems function in a variety of industries.

Our graduates have gone on to work in areas such as
- the properties of metals and their melts;
- nonorganic and organic compounds and dielectrics;
- modeling and developing phase trajectories to forecast change in the physical properties of condensed matter;
- experimental methods to study and build materials with the necessary properties for a variety of industries; technological applications of condensed matter physics.

The programme is hosted by the School of Engineering Physics and Radio Electronics in collaboration with the institutes of the Russian Academy of Sciences, Siberian Branch and local high tech companies. We offer twenty two supervisors with various research interests, ranging in their research experience from PhDs to full professors.
Chemical Sciences

04.06.01
Graduates pursue careers in chemistry and have a unique experience of research resulting in a high level of research skills and capabilities leading to high demand jobs.

**Doctoral programmes:**

- 02.00.01 Inorganic Chemistry
- 02.00.02 Analytical Chemistry
- 02.00.04 Physical Chemistry
- 02.00.13 Petroleum Chemistry

Professor Viktor Denisov
Department of Physical and Inorganic Chemistry
School of Non-Ferrous Metals and Material Science
vdenisov@sfu-kras.ru
This is a 4-year PhD programme provided in Russian or English with an option of a 5-year PhD programme for distant learners.

We offer comfortable student residences, pre-sessional Russian courses and thesis examinations by an appropriate Examining Committee in the Russian Federation.

Our doctoral students focus on new substances, chemical processes and patterns, interdisciplinary research approaches.

Our graduates have gone on to work in research, high tech industries and chemical education, covering a wide scope of approaches in theoretical or applied chemistry and related sciences.

The programmes are hosted by the School of Non-Ferrous Metals and Material Science, School of Petroleum and Gas Engineering and Polytechnic School. The facilities that contribute to the successful administering of the programmes include the thermal analysis laboratory, laboratory of composites and conductive materials, laboratory of inorganic synthesis, laboratory of physical chemistry, laboratory of quantum simulations, laboratory of petroleum engineering, the university equipment sharing facility. We offer ten supervisors with various research interests, ranging in their research experience from PhDs to full professors.

Entry requirements: a masters degree, good knowledge of theoretical chemistry, research experience, proficiency to at least level B2 of English or Russian.
Earth Sciences

05.06.01

Graduates pursue careers in national and international academic institutions, corporations and national companies that work with a variety of tasks in environmental geology, geology and environmental science.

Программы:

- 03.02.08  Ecological Geography
- 25.00.01  Geology and Regional Geology
- 25.00.10  Geophysics and Exploration Geophysics
- 25.00.11  Geology, Mineral Exploration, Mineral Resources
- 25.00.36  Environmental Geoscience

Dr Ruslan Sharafutdinov
Head, School of Ecology and Geography
rsharafutdinov@sfu-kras.ru
Our doctoral students focus on

- the Earth and its main spheres, such as the lithosphere, hydrosphere, atmosphere, biosphere, their content, structure, evolution and properties;
- geophysical fields, oil, gas and mineral exploration;
- systems and structures that involve environment, environmental management, industrial production, man-made change, social and territorial impact at a national and international level, how these impacts can be monitored and predicted;
- environmental management and geographical information systems;
- spatial planning and development;
- environmental expertise for environmental management;
- educational projects.

Our graduates have gone on to work in applying Earth Science to real world problems.

The programmes are hosted by the School of Ecology and Geography, School of Petroleum and Gas Engineering, School of Mining, Geology and Geotechnology, and School of Trade and Services. We offer eight supervisors, almost all of them are full professors.

Entry requirements: a masters degree, and fluency in Russian are essential; publication record is an advantage.

We offer comfortable student residences, pre-sessional Russian courses and thesis examinations by Siberian Federal University’s Examining Committees.

This is a 3-year PhD programme provided in Russian with an option of a 4-year PhD programme for distant learners.
Graduates pursue international careers in advanced research into biology, receiving a number of practical and technical skills that make them attractive to employers in a competitive job market.

**Doctoral programmes:**

- 03.01.02  Biophysics
- 03.01.04  Biochemistry
- 03.01.05  Plant Physiology and Biochemistry
- 03.02.03  Microbiology
- 03.02.08  Ecology
- 03.02.10  Hydrobiology
- 03.02.14  Biological Resources
Our doctoral students focus on
• biological systems at various levels of organization, their evolution and functioning;
• biological, bioengineering, biomedical, and environmental technologies;
• the interactions between soil and biosphere;
• biological expertise and monitoring, biological resources assessment and ecological restoration.

Our graduates have gone on to work in such areas as
• studying characteristic features of life and living organisms;
• application of biological systems approaches for industry, medicine, eco technologies, environmental protection and management.

The programmes are hosted by the School of Fundamental Biology and Biotechnology and the School of Ecology and Geography. The laboratories have the equipment necessary for doctoral research. We offer thirty supervisors, including twenty full professors.
Our graduates apply broad analytical and managerial skills to architectural practice and decision making for urban growth, development and planning.

**Doctoral programmes:**

- **05.23.20** Architectural Science and Architectural History, Heritage Restoration and Historic Building Conservation
- **05.23.22** Urban Design and Rural Planning
Our doctoral students focus on human environment, such as cities, settlements, buildings, and sites; modeling human environment; history of architecture, architectural heritage, cultural heritage.

Our graduates have gone on to work in
- fundamental and applied research in architecture, style, composition and classification of buildings and sites, accessible environment and inclusivity;
- conservation and restoration of historical buildings and urban environment, restoration of damaged historical buildings;
- research in designing comfortable, safe and secure built environment for work, life and recreation, designing and improving legislation in architecture and urban design;
- research in social, technical and architectural problems for the sustainable development of cities and settlements;
- research in architectural design for cities and rural areas, planning districts and sites, designing, planning and locating large scale territories, built environments and sites;
- teaching and designing study programmes at the institutions of higher education.

The programmes are hosted by the School of Architecture and Design, providing courses in architectural science, history of architecture, architectural practice, urban planning, design and visual arts. We offer eight research supervisors.
Construction Equipment and Technologies
08.06.01

Graduates pursue careers in research and innovative strategies for the construction sector.

**Doctoral programmes:**

- 05.23.01 Technologies, buildings and systems in the construction sector
- 05.23.03 Heating, ventilation, air conditioning, gas and electricity networks
- 05.23.04 Water distribution systems, wastewater treatment, water engineering and environmental protection
- 05.23.05 Construction materials and products
- 05.23.11 Design and construction of roads and underground, airports, bridges and transportation tunnels

**Professor Rashit Nazirov**
Head, Department of Building Design and Real Estate Consulting
School of Engineering and Construction
RNazirov@sfu-kras.ru
This is a 4-year PhD programme provided in Russian with an option of a 5-year PhD programme for distant learners. We offer comfortable student residences, pre-sessional Russian courses and thesis examination by an appropriate Examining Committee in the Russian Federation.

Our doctoral students focus on technologies, buildings and systems in the construction sector; impact of forces and loads on buildings and systems; heating, ventilation, air conditioning, gas and electricity networks; construction materials and products; water, waste, and environment engineering; machinery, equipment and automation technologies; cities, settlements, natural environment and built environment.

Our graduates have gone on to work in:
- engineering, design, construction, restoration, and maintaining buildings, systems and transportation infrastructure;
- design and improvement of systems, and sites; design, improvement and validation of decision support systems in industrial informatics;
- design and improvement of new machinery, equipment and technologies;
- design and improvement of new construction materials;
- design of new approaches to improving safety and security of construction sites;
- improving engineering systems and machinery for construction sites.

Study programmes include a strong focus on scientific research and applied studies for designing and constructing buildings in the areas of extreme cold and for northern communities.
Informatics and Computer Science

09.06.01

Graduates pursue international careers as ‘digital elite’, applying a wide scope of digital technologies.

Doctoral programmes:

05.13.01  Computational complexity, optimization models, information processing
05.13.05  Hardware systems, and computing systems
05.13.06  Automation and digital technologies for the industrial sector
05.13.11  Mathematical methods, software engineering and e-infrastructure
05.13.17  Theory of computer science
05.13.18  Mathematical modeling, numerical analysis, and advanced programming
We give our students an opportunity to drive digital transformation across the world and use a broad scope of digital technologies in academic and industrial applications.

Our doctoral students work in computer science and interdisciplinary research, focusing on:
- hardware and e-infrastructure;
- software engineering and industrial automation;
- mathematical background of computer science, scientific computing, tools and infrastructure for information systems, computing systems and a variety of their applications;
- high performance computing and supercomputing;
- hardware and software engineering.

Our graduates have gone on to work in the theory of computer science, design, installation and maintenance of the new generations of computer systems and their infrastructures, they also develop mathematical methods for computer science and work in software engineering.

The programmes are hosted by the School of Space and Information Technologies, School of Non-Ferrous Metals and Material Science, and Polytechnic School. We offer over 30 research supervisors.

Entry requirements: a masters degree, B2 level of English or Russian.
Graduates pursue careers in physics in the academy and industrial sector.

**Doctoral programmes:**

- **05.12.04** Radio engineering and broadcast engineering
- **05.12.07** Microwaves and antenna engineering
- **05.12.13** Telecommunications systems and telecommunications design
- **05.12.14** Wireless communications, remote control and monitoring
- **05.27.01** Solid state electronic devices, microelectronics, nano electronics, quantum electronic devices
This is a 4-year PhD programme provided in Russian with an option of a 5-year PhD programme for distant learners.

We offer comfortable student residences and thesis examination by one of Siberian Federal University’s Examining Committees.

Our doctoral students focus on
- electronic devices, tools, approaches and systems for electronic and communication engineering in the industrial sector; monitoring and technical equipment, mathematical modeling and new approaches to a wide scope of challenging tasks in electronic and communication engineering; software engineering to support modeling in electronics and nano electronics;
- wireless systems, their design, modeling, experimental production, assessment and testing for production and industrial application; technologies, tools and approaches for telecommunications, information processing and storage.

Our graduates have gone on to work in mathematical and computational modeling, designing, building, assessing, and testing electronic devices, their materials and parts; vacuum electronics, plasma electronics, solid state electronics, microwaves, optoelectronics, microelectronics, and nano electronics for a range of industrial applications.

The research laboratories at the School of Engineering Physics and Radio Electronics include the laboratory of nano materials, laboratory of radio electronics, laboratory of thermal physics and radio engineering, laboratory of photonics and laser technologies. We offer twenty seven research supervisors, including twelve full professors.

Entry requirements: a masters degree and fluency in Russian.
Graduates pursue careers in teaching, consulting and research into telecommunications and optical devices, information registering and information processing, developing and improving measurement instruments and systems.

**Doctoral programmes:**

- 05.11.01: Instrument development and approaches to measurement
- 05.11.13: Instrument development, approaches to environmental control and environmental monitoring
Entry requirements: a masters degree, good knowledge of tools, approaches and instruments for measurement and control, and fluency in Russian.

Our doctoral students focus on
- photonics devices and technologies, optoelectronic devices;
- telecommunications and image sensing for technical and biological systems;
- instrument development and optical device modeling, new generation elements and parts;
- expertise and consulting in photonics, instrument development, optical, biological, and biomedical systems and technologies.

Our graduates have gone on to work in
- photonics for optical and biological systems to provide measurement and environmental control;
- expertise and consulting;
- teaching at the institutions of higher education.

The doctoral programmes are hosted by several schools with an opportunity to work in research labs across the campus.

We offer comfortable student residences, pre-sessional Russian courses and thesis examinations by Siberian Federal University’s Examining Committees.
Energy Engineering

13.06.01

Our graduates pursue careers in generating, distributing and the effective use of thermal and electrical power, transforming energy from other sources into thermal power, automation of thermal power generation and other issues related to the energy industry. Our partners are major national and international companies, key contributors to the industry development.

Doctoral programmes:

- 05.09.03 Engineering of electrical systems and network architectures
- 05.14.01 Energy engineering and network architectures
- 05.14.02 Power stations and distribution systems
- 05.14.04 Thermal engineering
- 05.14.14 Thermal power stations, electrical systems and network architectures
Our doctoral students focus on
• thermal power stations;
• industrial power systems;
• heat and mass transfer analysis;
• thermal and electrical networks;
• heat transfer fluids, applications and installations for thermal and energy engineering;
• legislation and environmental standards for energy engineering;
• heat management and control through automation in thermal and electrical engineering.

Our graduates have gone on to work in
• theory and practice of energy engineering;
• mathematical and computational modeling;
• designing and planning materials, devices, applications, installations and systems for electrical and thermal engineering;
• designing, building and using electrical and electronic systems;
• using and maintaining energy systems for industrial companies, transportation systems, thermal and nuclear power stations, dams, factories, and power networks.

The doctoral programmes are hosted by the Polytechnic School. We offer seventeen research supervisors, including eleven full professors.
Mechanical Engineering

15.06.01

Our graduates pursue careers in innovative, results-driven research to improve mechanical engineering, designing, building and using its technologies and products.

Doctoral programmes:

- 05.02.02 Machinery systems, parts and components
- 05.02.08 Mechanical engineering and its technologies
- 05.02.10 Welding, related processes and technologies
- 05.02.13 Machines, complex machinery and processes
- 05.02.23 Standards and quality management
- 05.05.03 Wheeled and tracked vehicles
- 05.05.04 Road machines, construction machines and cranes
- 05.05.06 Mining machinery

Professor Stanislav Shatokhin
Department of Mechanical Engineering
Polytechnic School
sh4640@mail.ru
Our doctoral students focus on
- design of new or improved manufacturing plants in the field of mechanical engineering;
- complex technological machinery or equipment;
- technology supplies;
- mathematical modeling of machinery and technological processes;
- methods and approaches to testing and control for the products of mechanical engineering.

Our graduates have gone on to
- studying the theory and practice for developing advanced products of mechanical engineering;
- improving precision and efficiency of machines, equipment and technologies;
- developing new tools and approaches to support of design and technologies of mechanical engineering.

The doctoral programmes are hosted by the Polytechnic School, School of Mining, Geology and Geotechnology, School of Petroleum and Gas Engineering. We offer twenty four research supervisors, including eleven full professors.

Entry requirements: a masters degree, good theoretical knowledge of mechanical engineering, and fluency in Russian. Publications record is an advantage.
Our graduates pursue careers in designing and improving new approaches to food technology and catering management.

**Industrial Ecology and Biotechnology**

**19.06.01**

Our graduates pursue careers in designing and improving new approaches to food technology and catering management.

**Doctoral programme:**

**05.18.15** Food technology, food service and retail; catering management
We do research into
  • food quality assurance for raw materials, food processing and food products;
  • sustainable development management, food safety education and knowledge dissemination;
  • environmental monitoring and environmental protection from anthropogenic impacts.

Our graduates have gone on to work in
  • food quality assurance management for raw materials, food processing and food products;
  • environmental protection management and sustainable development;
  • teaching at the institutions and higher education and colleges.

The programme is hosted by the School of Trade and Services which provides excellent research environment with an opportunity to work and study at over ten research labs and the Food Science and Nutrition Centre.

- Entry requirements: a masters degree, research experience in food technology or food quality management, and fluency in Russian.
Our graduates pursue careers in major mining companies located in the region famous for being a centre of mineral exploration. Their knowledge and skills are in high demand locally and across the world.

**Doctoral programmes:**

- **25.00.13** Mineral processing
- **25.00.14** Technology of exploration geology and mining geology
- **25.00.22** Geotechnical engineering for ground and underground investigation and for construction management
Our doctoral students focus on
- engineering geology and site investigation, their equipment and technologies;
- mineral exploration technologies, environment and safety;
- designing methods and systems for mining geology;
- geoscientific software, data management and computational modeling for mineral exploration, mining and processing.

Our graduates have gone on to work in
- research and design of innovative systems and technologies for geotechnical engineering, exploration geology, and mining geology;
- research and data management for mining, transportation and storage, geotechnical engineering for ground and underground construction;
- research, reporting and justification for safety regulations and environmental protection in the conditions of mineral exploration, site investigation, mining, processing and storage and when designing ground and underground construction sites.

The doctoral programmes are hosted by the School of Non-Ferrous Metals and Material Science and School of Mining, Geology and Geotechnology. We offer appropriate supervisory support with an opportunity to identify a potential supervisor among eleven members of research-active staff, including six full professors.
Our graduates pursue careers in advanced materials engineering which is a field with a high demand in skilled professionals.

**Doctoral programmes:**

- **05.16.01** Metallurgy, thermal processing of metals and alloys
- **05.16.02** Metallurgy of ferrous, non-ferrous and rare earth metals
- **05.16.04** Hot casting and foundry management
- **05.16.05** Metal forming and material processing
- **05.16.06** Composites engineering
Our doctoral students focus on
- designing new materials;
- methods and approaches to nano and micro structural analysis;
- technological equipment for metal forming;
- technologies of metal processing (casting, rolling, pressing);
- quality control and production monitoring for control of manufacturing operations;
- measurement of material properties.

Our graduates have gone on to work in
- research, technological engineering or teaching at higher education institutions;
- designing and using new materials and equipment for experimental manufacturing and mass production;
- measurement of material properties.

The doctoral programmes are hosted by the School of Non-Ferrous Metals and Material Science, and Polytechnic School. We offer appropriate supervisory support with an opportunity to identify a potential supervisor among twenty two members of research-active staff, including fourteen full professors.

This is a 4-year PhD programme provided in Russian or English with an option of a 5-year PhD programme for distant learners.

We offer comfortable student residences, pre-sessional Russian courses and thesis examination by one of Siberian Federal University’s Examining Committees.

Entry requirements: a masters degree, good knowledge and skills of data management, and B2 level of English or Russian.
Our graduates pursue careers in research into transportation engineering, such as vehicle engineering, passenger transportation, maintenance, spare parts logistics.

**Doctoral programmes:**

- 05.22.10  Automotive engineering
Our doctoral students focus on
- ground transportation engineering;
- regulations, standards and documentation for ground transportation engineering;
- quality control and measuring properties of ground transportation systems, vehicles and parts.

Our graduates have gone on to work in
- research into the theory and concepts of automotive vehicle dynamics; design, testing and using automotive vehicles for construction, agriculture, and a scope of other practical tasks;
- teaching at higher education institutions and colleges.

Our research centres address such issues as modeling road traffic flow, managing transport flows in large cities, and electric/hybrid vehicles. They involve external collaboration and the industry partnerships provide practical testing for our inventions and innovative design.

Our major partnerships are KAMAZ Centre in Krasnoyarsk and a variety of local dealers for best-selling automotive brands. The programme is hosted by the Polytechnic School.

Entry requirements: a masters degree, good knowledge of transportation engineering, and fluency in Russian.
Control Engineering

27.06.01

Our graduates pursue careers in research into advanced control and systems engineering.

Doctoral programme:

05.13.06 Automation and control engineering with applications in various areas of industry

Professor Sergey Chentsov
Head, Department of Control and Automation
School of Space and Information Technology
schentsov@sfu-kras.ru
Our doctoral students focus on
• advanced principles of control systems engineering, including sensor systems, operating systems and control systems; mathematics, algorithms and software that support their development;
• methods and tools for designing, modeling and testing control systems;
• theory and experimental testing of control systems with applications in various areas of industry.

Our graduates have gone on to work in
• advanced methods of control engineering and information processing;
• research into control theory, artificial intelligence and intelligent systems.

The doctoral programme is hosted by the School of Space and Information Technologies, School of Non-Ferrous Metals and Material Science and Polytechnic School. We offer ten research laboratories, a supercomputer for high performance computing, hardware and software to address specific issues and challenges, appropriate supervisory support with an opportunity to identify a potential supervisor among seven members of research-active staff, including three full professors.
Our graduates pursue careers in research into cognitive, social, organizational and consulting psychology.

**Doctoral programme:**

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<th>Code</th>
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<td>19.00.13</td>
<td>Developmental psychology</td>
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Our graduates have gone on to work in research and applications in education, health care, management, culture, sports, law, social care, charities, public administration, and psychological consulting for individuals and institutions.

Our doctoral students focus on:
- psychological processes and human conditions;
- how they are demonstrated in a variety of areas and activities, personal and social interactions.

The doctoral programme is hosted by the School of Education, Psychology and Sociology. We offer appropriate supervisory support.

- Entry requirements: a masters degree, and fluency in Russian. Publications record is an advantage.
Our graduates pursue careers in research into economics with applications in various areas and in teaching economics at a wide scope of institutions.

**Doctoral programmes:**

- 08.00.01 Economic theory
- 08.00.05 Economics and management in various areas of industry
- 08.00.05 Economics and management in various areas of services
- 08.00.05 Economics and management in various areas of marketing
- 08.00.05 Economics and environmental management
- 08.00.10 Finance and banking
- 08.00.12 Accounting and statistics
Our doctoral students focus on
• economics and the analysis of economic indicators;
• applications in various areas of the functioning of economic agents, markets and systems.

Our graduates have gone on to work in the fields of economic theory, economics and management, finance and banking, accounting and statistics.

The doctoral programmes are hosted by the School of Economics, Public Administration and Finance, School of Business Management and Economics, and School of Trade and Services. We offer appropriate supervisory support with an opportunity to identify a potential supervisor among over thirty members of research-active staff, including fourteen full professors.
Our graduates pursue careers in research, administration and teaching.

**Doctoral programme:**

22.00.04 Social Structure, Social Institutions and Processes
Our doctoral students focus on
- the theory of social phenomena, relations, institutions, and social systems;
- real life social phenomena, relations, and institutions influenced by political, economic and cultural conditions globally and at a regional level, social processes and structures at a macro level and micro level;
- methodology of sociological science, methods and tools to study social processes, phenomena and systems, monitoring, projecting and design of social indicators, developing methodology and tools for different types of sociological analysis.

Our graduates have gone on to work in:
- theory, methodology and history of sociology;
- social structures, social institutions and processes;
- sociology of administration;
- sociology of education;
- sociology of culture and spirituality;
- political sociology.

The doctoral programme is hosted by the School of Education, Psychology and Sociology. We offer appropriate supervisory support.
The programme is hosted by the Law School providing high quality education for sixty five years. It has a wide network of international collaborations, and is among leading institutions in Russian legal studies and legal education.

**Doctoral programmes:**

- **12.00.01**  Theory and History of Law and State, History of Legal Studies
- **12.00.02**  Constitutional Law, the Supreme Court Cases, Municipal Law
- **12.00.03**  Civil Law, Entrepreneurial Law, Family Law, International Private Law
- **12.00.08**  Criminal Law and Criminology, Penal Law
- **12.00.09**  Criminal Justice
- **12.00.15**  Civil Procedure, Civil Proceedings and Case Management
Our doctoral students focus on
• socio-legal studies and law making;
• the judicial system;
• enhancing legality and order.

Our graduates have gone on to work in
• developing and enhancing law, legal rules and procedures;
• legal studies;
• education and teaching;
• expertise and consulting;
• enhancing legality and order.

Doctoral research is supported through reliable access to legal sources provided by the university library, digital editions published by specialized electronic libraries, online legal materials and other information sources. We offer appropriate supervisory support with an opportunity to identify a potential supervisor among nine full professors.
Our graduates receive skills of developing research projects, and professional skills of research and teaching.

**Doctoral programmes:**
- 13.00.01 Pedagogic Theory, History of Education and Teaching Practice
- 13.00.02 Theory and Methodology of Education and Teaching (across disciplines)
- 13.00.08 Theory and Methodology of Professional Education
Our doctoral students focus on
• educational and socio-cultural systems;
• teaching, education, development and social development;
• pedagogical expertise and monitoring.

Our graduates have gone on to work in
• research into teaching, pedagogical practices and educational systems;
• developing educational technologies for education, research, culture and social practices.

The doctoral programmes are hosted by the School of Education, Psychology and Sociology and School of Physical Education, Sport and Tourism.

Our international collaboration partners are Kenyatta University, Université de Lorraine (France), Heinrich-Heine-Universität Düsseldorf (Germany), University of Minnesota (USA), University of Tennessee (USA), Glasgow University (UK), Universidade Nova de Lisboa (Portugal), Bologna University (Italy), ADPIOS (France), EC-VPL (European Centre for Valuation of Prior Learning, the Netherlands), Altynsarin National Academy of Education (Kazakhstan), Ministry of Education, Krasnoyarsk Krai, Institutes of the Russian Academy of Sciences and Russian Academy of Education, and leading universities of the Russian Federation.

We offer appropriate supervisory support with an opportunity to identify a potential supervisor among twelve members of research-active staff, including nine full professors.

- Entry requirements: a masters degree, research experience and fluency in Russian. Publication record and your employer’s reference is an advantage.

- This is a 3-year PhD programme provided in Russian with an option of a 4-year PhD programme for distant learners.

- We offer comfortable student residences, pre-sessional Russian courses and thesis examination by an appropriate Examining Committee at Siberian Federal University.

- Entry requirements: a masters degree, research experience and fluency in Russian. Publication record and your employer’s reference is an advantage.
Our graduates receive a wide range of generic skills providing they are in high demand across industries and disciplines.

**Doctoral programmes:**

- **10.02.19** Linguistic Theory
- **10.02.01** Russian Language
- **10.01.01** Russian Literature
Our doctoral students focus on a variety of fields such as pragmatics, comparative linguistics and literary studies, historical approaches to texts and languages, cognitive, theoretical and applied linguistics.

Our graduates have gone on to work in philology, linguistics and related disciplines.

The doctoral programmes are hosted by the School of Philology and Language Communication which is involved in a number of international collaborations. Our international partners are University of Alcalá, University of Alicante, University of Cádiz (Spain), Ludwig-Maximilians-Universität Munchen (Germany), Capital Normal University, Northeast Normal University, Heilongjiang University, Shandong University, Harbin Institute of Technology (China), Aichi Gakuin University (Japan).

We offer appropriate supervisory support with an opportunity to identify a potential supervisor among nine full professors.

- This is a 3-year PhD programme provided in Russian with an option of a 4-year PhD programme for distant learners.

- Entry requirements: a masters degree, good knowledge of the discipline that informs your future research project, advanced IT skills and fluency in Russian.

We offer comfortable student residences, pre-sessional Russian courses and thesis examination by an appropriate Examining Committee at Siberian Federal University.
Our graduates pursue careers in research and teaching in the fields of history and archaeology.

**Doctoral programmes:**

- 07.00.02 Russian History
- 07.00.03 History (across time periods)
Our doctoral students focus on historical processes and phenomena, history of social, cultural, political and economic change and how these are presented in historical sources.

Our graduates have gone on to work in:
- the academy, research centers, archives, museums and other cultural institutions;
- expertise and consulting, public administration and documentation centers.

The doctoral programmes are hosted by the School for the Humanities. Postgraduate students work at the Archaeological Laboratory of the Yenisey Siberia, Siberian dendrochronological laboratory, Digital Humanities Laboratory. Postgraduate research is supported through reliable access to information sources provided by the university library. Our students also use Krasnoyarsk Regional Research library, Regional Archival Agency of Krasnoyark Krai, Krasnoyarsk Museum of Natural Science, History and Ethnography, Krasnoyarsk Centre of Culture and History and other cultural centers.

We offer appropriate supervisory support with an opportunity to identify a potential supervisor among eleven members of research intensive faculty, including seven full professors.
Philosophy, Ethics and Religious Studies

47.06.01

Our graduates pursue careers in public administration, international relations, research and teaching.

**Doctoral programmes:**

- **09.00.01** Ontology and Epistemology
- **09.00.11** Social Philosophy
- **09.00.13** Philosophical Anthropology and Philosophy of Culture
This is a 3-year PhD programme provided in Russian with an option of a 4-year PhD programme for distant learners.

We offer comfortable student residences, pre-sessional Russian courses and thesis examination by an appropriate Examining Committee at Siberian Federal University.

Our postgraduate students focus on
• social and cultural issues that drive the development of scholarship, art and religion;
• epistemology;
• communication and its practices;
• individual forms of social participation.

Our graduates have gone on to work in
• teaching at higher education institutions and colleges;
• research centers;
• media and cultural institutions;
• public administration.

We offer appropriate supervisory support with an opportunity to identify a potential supervisor among six professors.

Entry requirements: a masters degree, good knowledge of the discipline that informs your future research project, advanced IT skills and fluency in Russian.
Our graduates pursue careers in research centers, institutions of higher education, education management, sport, and physical education management.

**Doctoral programme:**

13.00.04 Theory and Methodology of Physical Education, Sport Training, Physical Education for Health and Well-being, Adaptive Physical Education.
Our postgraduate students focus on

- physical, psychological, social and spiritual approaches to maintaining health and well-being;
- preparing for sport and sport competitions, improving sports performance to achieve better results;
- teaching approaches to physical education and sport;
- pedagogical systems for physical education and sport.

Our graduates have gone on to work in organization, management, research and teaching for sport, physical education, and adaptive physical education for health and well-being.

The programme is hosted by the School of Physical Education, Sport and Tourism. We offer appropriate supervisory support with an opportunity to identify a potential supervisor among three members of research-active staff, including two professors.

Entry requirements: a masters degree, good knowledge of physical education theory and methodology, information management skills, and fluency in Russian.
Art History and Theory

50.06.01

The programme will contribute to developing research skills to complete research in art theory and art history.

Doctoral programme:

17.00.09 — Art History and Theory
Our postgraduate students focus on

- artistic, cultural and socio-cultural phenomena and how they are presented in artworks, art theory and art methodology;
- methods and approaches to creating and presenting artworks;
- art objects, sites and collections of artworks;
- fine art conservation and restoration;
- environment, society and culture;
- art education;
- art history societies and professional associations.

Our graduates have gone on to work in art, culture and the humanities.

The programme is hosted at the School for the Humanities. Our partners for research and scholarship include Krasnoyarsk Museum of Fine Art, Museum Centre, Krasnoyarsk Regional Museum of Ethnography, History and Natural Science, and Ryauzov Museum.

We offer appropriate supervisory support.

Entry requirements: a masters degree, good knowledge of prior research in art history and theory, advanced IT skills, and fluency in Russian.

We offer comfortable student residences, pre-sessional Russian courses and thesis examination by an appropriate Examining Committee in the Russian Federation.

This is a 3-year PhD programme provided in Russian with an option of a 4-year PhD programme for distant learners.
Our graduates pursue careers in research into the theory and history of culture to develop scholarship in the humanities or broaden their skills and improve their career prospects.

**Doctoral programme:**

24.00.01  Theory and History of Culture
Our postgraduate students focus on
• cultural policy and history of the national and global culture;
• cultural phenomena and cultural change;
• teaching and education that involves culture;
• technologies of creating, disseminating and maintaining cultural objects and sites;
• cultural industries, cultural and natural heritage;
• tourism and cultural infrastructure;
• personal and cultural communication, socio-cultural management and marketing/

Our graduates have gone on to work in
• cultural studies, social studies and the humanities;
• studying artistic and cultural practices;
• expertise and consulting in culture and cultural industries;
• funding programmes to support culture and cultural heritage;
• museum collections and how they are structured;
• promoting appreciation and understanding of cultural and natural heritage;
• leisure and recreation activities.

The doctoral programme is hosted at the School for the Humanities. We offer appropriate supervisory support.
How to Apply

Minimum entry requirement is a masters or a specialists degree. The application deadline is July, the 30th for each year.

To submit a formal application, bring your documents in person to
- Krasnoyarsk, pr. Svobodny, 79/10, Room P6-12, P6-14, P6-16
- or send them to the following address: 660041, Krasnoyarsk, pr. Svobodny, 79
- or use our email address: aspirantura@sfu-kras.ru

The relevant documentation includes:
- an application where you agree to enrollment;
- an application to get admitted to a doctoral programme addressed to the university rector;
- a recommendation from a potential supervisor which they write after you are interviewed;
- a list of your research publications;
- copies of your degree(s) certificates and transcripts;
- a copy of your ID or passport;
- a completed form;
- any other documents to support your achievements;
- two photos of the applicant with the right bottom corner left blank for stamping, photo size should be 40 millimeters high x 30 millimeters wide, head should not be covered.

Admission exams that are required for particular doctoral programmes are taken in early August, testing can be remote.
Examining Committees at Siberian Federal University

D 212.099.07 05.14.01 Energy Engineering and Network Architecture (PhD in Technology and Engineering)
05.14.02 Power Stations and Distribution Systems (PhD in Technology and Engineering)
05.14.04 Thermal Engineering (PhD in Technology and Engineering)
D 212.099.10 05.16.04 Hot Casting and Foundry Management (PhD in Technology and Engineering)
05.16.05 Metal Forming and Material Processing (PhD in Technology and Engineering)
D 212.099.17 09.00.01 Ontology and Epistemology (PhD in Philosophy)
09.00.11 Social Philosophy (PhD in Philosophy)
D 212.099.19 05.16.06 Composites Engineering (PhD in Technology and Engineering)
D 212.099.20 08.00.05 Economics and Management (PhD in Economics)
D 212.099.21 05.12.14 Wireless Communications, Remote Control and Monitoring (PhD in Technology and Engineering)
05.12.04 Radio Engineering and Broadcast Engineering (PhD in Technology and Engineering)
01.04.03 Radio Physics (PhD in Technology and Engineering)
D 212.099.22 05.13.05 Hardware Systems, and Computing Systems (PhD in Technology and Engineering)
05.13.17 Theory of Computer Science (PhD in Technology and Engineering, PhD in Physics and Mathematics)
D 212.099.23 25.00.11 Geology, Mineral Exploration, and Mineral Resources (PhD in Geology and Mineral Exploration)
25.00.22 Geotechnical Engineering for Ground and Underground Investigation and for Construction Management (PhD in Technology and Engineering)
D 212.099.24 08.00.01 Economic Theory (PhD in Economics)
D 212.099.25 01.01.01 Real Analysis, Complex Analysis, and Functional Analysis (PhD in Physics and Mathematics)
01.01.06 Mathematical Logic, Algebra, and Number Theory (PhD in Physics and Mathematics)
D 212.099.26 05.11.13 Instrument Development, Approaches to Environmental Control and Environmental Monitoring (PhD in Technology and Engineering)
05.13.11 Mathematical Methods, Software Engineering and E-Infrastructure (PhD in Technology and Engineering)
D 212.099.27 07.00.02 Russian History (PhD in History)
10.02.01 Russian Language (PhD in Philology)
10.02.19 Linguistic Theory (PhD in Philology)
D 999.131.03 13.00.01 Pedagogic Theory, History of Education and Teaching Practice (PhD in Education)
13.00.04 Theory and Methodology of Physical Education, Sports Training, Adaptive Physical Education and Physical Education for Health and Well-being (PhD in Education)
13.00.08 Theory and Methodology of Professional Education (PhD in Education)
D 999.029.02 24.00.01 Theory and History of Culture (PhD in Philosophy)
24.00.01 Theory and History of Culture (PhD in Cultural Studies)
D 999.032.03 13.00.02 Theory and Methodology of Education (Informatics) (PhD in Education)
13.00.02 Theory and Methodology of Education (Mathematics) (PhD in Education)
13.00.02 Theory and Methodology of Education (Digital Approaches to Education) (PhD in Education)
D 999.119.02 03.02.08 Ecology (Biology) (PhD in Biology)
03.02.10 Hydrobiology (PhD in Biology)
D 999.126.03 12.00.03 Civil Law, Entrepreneurial Law, Family Law, International Private Law (PhD in Law)
12.00.08 Criminal Law and Criminology, Penal Law (PhD in Law)
Join Siberian Federal University and our research community!

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2020