Master Your Future

Education • Research • Innovations

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Specialised English-Taught International Semester Programs of Master's level

- Bioluminescent Biotechnologies...
- Complex Geometry...
- Embedded Microprocessor Systems...
- Integral Methods of Complex Analysis...
- Modeling of Processes of Oil Refining...
- Nonferrous Metallurgy...
- Technologies of Hydrocarbons Processing...
- Technologies of Life Support System and Risk Management in the High North University Campus...

Student Services on Campus...
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About Krasnoyarsk...
Siberian Federal University (SibFU) is one of the top universities in Russia that has consolidated its positions in Russian Federation rankings and recently has been included into the QS Stars World University Ranking, THE, U-multirank, etc.

SibFU consists of 18 schools comprising diversity of educational fields, including humanities, natural sciences and engineering. It is a rapidly developing university providing the basis for economic growth, scientific advance and industrial modernization of the region.

In 2015 Siberian Federal University joined the Russian Academic Excellence Project "5-100". The Project aims at enhancing the competitiveness of the leading Russian universities and strengthening their positions in the global research and education market. The goal of the new program of SibFU international competitiveness improvement is international recognition of SibFU as a leading research university in the field of forestry and rational exploration, development and preservation of the unique natural reserves. Longstanding partnerships with business and industry is one of the key activities of the university providing employability opportunities and creation of new specialists for growing demand.
The mission of the University is to create an advanced education, research and innovation infrastructure and to promote new knowledge and technologies to meet the challenges of social and economic development of the Siberian Federal District, as well as to form the human resources potential — competitive experts in the priority areas of the Siberian and Russian Federation development, corresponding to the modern intellectual requirements and meeting international standards.
What makes SibFU different?

- Recognized by Times Higher Education, QS Stars University Ratings and others as one of the top-rated universities in Russia.
- According to the largest credit rating agency in Russia - «Expert RA» (RAEX) - SibFu takes the 8th place among the best Russian universities as one that prepares highly qualified graduates demanded by employers.
- All SibFU degree programmes are state accredited (Certificate of State Accreditation No0329, December 29, 2012), Master program in Economics and Master program in Management have been awarded accreditation by European Council for Business Education (ECBE).
- State-of-the-art campus located in a forested area in the vicinity of the Krasnoyarsk Scientific Center.
- Krasnoyarsk has been nominated as the host city for the Winter Universiade in 2019. The Universiade Village will be located at SibFU campus which is favourably close to the main winter sports venue Academy of Winter Spots.

It is vital to study at a good university, one that aspires to give the best to its students, ensuring that each student reaches their maximum potential. Through its reputation and my one year experience, SibFU is doing just that.

Delroy Mcfee from Jamaica,
School of Mining, Geology and Geotechnology at SibFU
Master's Degree Programs
In today’s environment, it is important to choose a Masters program that will immediately give you a competitive edge! Our programs have been developed in response to the considerable worldwide demand from students wishing to follow a career in leading international companies! Join an extraordinary community of educators from across the country and around the world who are dedicated to improving lives and shaping the future through the transformative power of education.
Key facts

• Academic year starts on October 1.
• Application deadline is the end of July.
• Entry requirements:
  1) BSc or MSc degree in the related field (transcript of records);
  2) Good command of English (certificate or other official document);
  3) Skype interview (a motivation letter and/or a letter of recommendation may also be required).

<table>
<thead>
<tr>
<th>Program Title</th>
<th>Duration</th>
<th>ECTS credits</th>
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<tbody>
<tr>
<td>Applied Computing in Engineering and Science</td>
<td>2 years</td>
<td>120 ECTS</td>
</tr>
<tr>
<td>Banking</td>
<td>2 years</td>
<td>120 ECTS</td>
</tr>
<tr>
<td>Biological Engineering</td>
<td>2 years</td>
<td>120 ECTS</td>
</tr>
<tr>
<td>Complex Analysis</td>
<td>2 years</td>
<td>120 ECTS</td>
</tr>
<tr>
<td>Petroleum Chemistry and Refining</td>
<td>2 years</td>
<td>120 ECTS</td>
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</tbody>
</table>

* Payment is made only in rubles. The price could change at the time of signing a learning agreement.
About the program
The curriculum combines different areas of mathematics, statistics, and information technologies into a modern interdisciplinary study program focused on applied computing.

The program is designed in the framework of the EU Tempus program in cooperation with:

- Technische Universität Wien (Austria),
- Bergische Universität Wuppertal (Germany),
- Katholieke Universiteit Leuven (Belgium) and other universities.

Unique characteristics
The program curriculum and research projects are based on more than 20 years experience of cooperation with the leading producer of Russian GLONASS navigation satellites — Reshetnev center situated near Krasnoyarsk. Many of our courses are aimed at application of navigation signal processing. Our local supercomputing cluster provides the necessary research and training facilities.

Career opportunities
Graduating from this programme really does give you the edge when entering today's job market. Graduates cover a wide range of appointments in industry, commerce and the public sector.
The curriculum combines different areas of mathematics, statistics and information technologies into a modern interdisciplinary study program focused on applied computing. The aim is to educate highly qualified and skilled graduates, who:

- will be able to understand the theoretical background and the scientific foundations;
- will be familiar with the tools to apply the theoretical framework in practice;
- will have experience with practical applications and interpretations of the outcome.

<table>
<thead>
<tr>
<th>1 SEMESTER (30 ECTS)</th>
<th>Research</th>
</tr>
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<tbody>
<tr>
<td>Scientific Computing I</td>
<td></td>
</tr>
<tr>
<td>Numerical Linear Algebra</td>
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</tr>
<tr>
<td>Mathematical Modeling</td>
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<table>
<thead>
<tr>
<th>2 SEMESTER (30 ECTS)</th>
<th>Research</th>
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<tbody>
<tr>
<td>Scientific Computing II</td>
<td></td>
</tr>
<tr>
<td>Numerical Analysis and Optimization</td>
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<table>
<thead>
<tr>
<th>3 SEMESTER (30 ECTS)</th>
<th>Research</th>
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<tbody>
<tr>
<td>Scientific Computing III</td>
<td></td>
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<tr>
<td>Statistical Modeling</td>
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<table>
<thead>
<tr>
<th>4 SEMESTER (30 ECTS)</th>
<th>Research + Master Thesis</th>
</tr>
</thead>
</table>
Program leader

Professor Sergey P. Tsarev, Doctor of Science (Lomonosov Moscow State University), Professor of Applied Mathematics SibFU

Author and co-author of 56 scientific publications. Project leader of 6 research projects of RFBR (Russian Foundation of Basic Research) and 2 European (INTAS) projects.

Research rating (ISI Web of Science): 508 citations.

Teaching staff

Alexey Kytmanov, Doctor of Science (SibFU), Ph.D. in Mathematics (Missouri University of Science and Technology), Department of Applied Mathematics and Computer Security SibFU
What will I study?

- descriptive & multivariate statistics
- advanced regression and classification
- software environment
- large memory data analysis
- data visualization techniques
- high-dimensional data analysis
- numerical simulation techniques
- efficient coding methods
- discretization techniques

Studying at SibFU will be to my benefit, in that, on returning home, it is no question that I'll be highly favored for employment.

Jeovauny Lindo, a student from Jamaica

Applied Computing in Engineering and Science
Banking
MSc in Finance and Credit

About the program
The program is suitable for students from a variety of backgrounds. This program is designed to produce highly skilled, analytical and forward-thinking graduates who are ready to slot into a specialized role. You will be given regular talks from industry experts and opportunities to gain qualifications. You will get a head start in the jobs market and on your financial career. The program will be of particular interest to those wishing to build careers within banks, building societies, specialized financial institutions and fund management, securities dealing firms, multinational companies, or to occupy roles in corporate financial management and independent financial advice.

Unique characteristics
Our finance programs equip you with an impressive set of skills and special knowledge. In addition, inbuilt practical experience will help you succeed in a competitive job market. Many students undertake a real-life consultancy project as their dissertation for an organization operating in the sector. This project will result in managerial recommendations which can be applied immediately, not to mention providing you with references and contacts to use after you graduate.

Career opportunities
This program is an ideal preparation for a career in investment and commercial banking, insurance companies, specialized financial institutions, trading companies and financial management roles in other industries.
Dedicated support: students are assigned a personal academic supervisor to guide them through the research project and dissertation stage of the program. Subject tutors are also on hand to provide guidance on specific modules. The course leader will help with general academic and administrative issues and there is a student liaison office to help with any other problems or issues.

### 1 SEMESTER (30 ECTS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Research</th>
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</thead>
<tbody>
<tr>
<td>Research methods in Banking and Finance</td>
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<tr>
<td>Banking Communication. The banking ethics</td>
<td></td>
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<tr>
<td>Macroeconomics</td>
<td></td>
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<tr>
<td>Modern financial and banking system in Russia</td>
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<tr>
<td>The history of the financial markets</td>
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<tr>
<td>Quantitative Methods in Finance</td>
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</table>

### 2 SEMESTER (30 ECTS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Research</th>
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</thead>
<tbody>
<tr>
<td>Financial Investments and Risk Management</td>
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<tr>
<td>Financial Modeling I</td>
<td>Practical internship</td>
</tr>
<tr>
<td>Applied Econometrics for Financial Intermediation I</td>
<td>Project management in banking</td>
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### 3 SEMESTER (30 ECTS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Research</th>
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</thead>
<tbody>
<tr>
<td>Monetary Economics</td>
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</tr>
<tr>
<td>Financial Modeling II</td>
<td>International Financial Accounting</td>
</tr>
<tr>
<td>Economics of Sustainable Development</td>
<td>Asset Allocation</td>
</tr>
<tr>
<td>Behavioral Economics</td>
<td>International Comparative Tax Law</td>
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<tr>
<td></td>
<td>Actual problems of finance</td>
</tr>
</tbody>
</table>

### 4 SEMESTER (30 ECTS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical internship + MasterThesis</td>
<td></td>
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</tbody>
</table>
Program leader

Professor Irina A. Yankina, Doctor of Economic Sciences, Laboratory of financial and banking technology (leader), Institute of Economics, Management and Nature Siberian Federal University (SFU), a member of International association of European and Russian researchers EuRun-BIS.

Teaching staff include SibFU professors and visiting lecturers from partner’s universities of Russia and Italy, UK and other countries. Leading scientist from University of Siena, Italy Prof. Maurizio Pompella and Jean Raphael Chaponniere, an expert of the global governance program at Asia Centre, will deliver lectures at SibFU.
What will I study?

During the program students acquire knowledge, understanding and insight into how banks, financial institutions and markets function in the economy and global financial system. The participants also develop an appropriate range of cognitive, critical, intellectual and research skills, plus relevant personal and interpersonal skills to interact in the real world of business and finance.

Upon successful completion of this program you will be able to: understand how the role of banking and finance integrates within the wider business environment, demonstrate clarity in problem definition, and demonstrate the ability to analyse and use relevant information to offer interpretations and solutions within a multi-disciplinary banking business perspective.
About the program
Program is aimed at students who have a background in natural science and wish to master contemporary methodology of scientific research in order to pursue a career in the field of biological engineering. The scientific projection in biological engineering aims to encourage research skills by students through an individual research project in biology, biological engineering or biophysics. Students will follow all steps of research process from the problem statement to the achievement and analysis of experimental results.

Unique characteristics
While following the program students have to deal with the phenomenon of bioluminescence in all its aspects: from genetic and molecular to evolutionary and ecological. Master’s research projects are focused on studying the chemical nature of light emission by new luminous species (fungi, soil worms, coelenterates, bacteria, etc.), modelling the enzyme behavior in cell hyaloplasm, development of new recombinant bioluminescent organisms and of a new generation of bioluminescent biosensors for environmental monitoring and medical diagnostics as well as on other fundamental and applied topics.

Career opportunities
With a Master’s degree in Biosciences you can obtain a position in both public and private sector.
Program content and structure

1 semester
- Master's courses
- Master's thesis (30 ECTS credits)

2 semester
- Module 1 “Bioluminescent Biotechnologies”
- Master's thesis (30 ECTS credits)

3 semester
- Module 2 “New Approaches in Biological Engineering”
- Master's thesis (30 ECTS credits)

4 semester
- Master's thesis (30 ECTS credits)
- 20 ECTS credits
- 10 ECTS credits

TOTAL - 120 ECTS Credits
Program leader

Professor Valentina Kratasyuk, Doctor of Sciences (Biology), Head of Biophysical Department, School of Fundamental Biology and Biotechnology, SibFU

Project leader and research associate in more than 20 Russian and International projects. Member of The Scientific Council of the International Society of Bioluminescence and Chemiluminescence (since 1993), International Society on Bioencapsulation (since 1994), Russian Biochemical Society (Since 1975), The European Society for Photobiology (Since 2007).

Teaching staff

Master’s Program “Biological engineering” is delivered by an experienced academic staff having a comprehensive background in fundamental research and practical applications in industries. The program is designed with emphasis on practical skills development and students work in the modern and well-equipped SibFU Laboratory of Bioluminescent Biotechnologies. This laboratory was established through the collaboration of the world’s strongest team of scientists engaged in fundamental research of light emission by living organisms.
What will I study?

This program provides a balance of the study of theory and the practical application of biological engineering and bioluminescent biotechnologies. During the program students work on their Master thesis under the guidance of experienced academic staff in the Laboratory of Bioluminescent Biotechnologies. The laboratory was established through a collaboration with a Nobel Laureate, Prof. Osamu Shimomura.

SibFU is a great place for self development, no matter if you are doing your Master, PhD or you are a PostDoc. The university is young and growing, however it already offers diverse research areas.

Rajeev Ranjan, 
a PostDoc from India
About the program
The aim of the program is to introduce students the concepts and methods of complex analysis in several variables, an actively developing area of mathematics that has deep connections with algebraic geometry, mathematical physics and others. The fundamentals of complex analysis are established through the systematic study of geometry of complex space and multidimensional integral representations, which in combination with methods of algebraic and tropical geometry present a powerful tool for contemporary mathematical research in different areas: from PDE and difference equations to algebraic and hypergeometric functions.

Unique characteristics
This program provides outstanding training in different aspects of complex analysis, it gives a thorough understanding of how this subject fits into mathematics. Moreover, the program includes lectures and seminars in fundamentals of complex analysis, making students familiar with the connections that complex analysis has with other fields of mathematics and physics.

Career opportunities
With a Master’s degree in Mathematics you will be equipped with a range of mathematical skills in problem-solving and project work, enabling you to take a role in diverse situations in employment and research.
# Program content and structure

## 1 SEMESTER (30 ECTS)
- Introduction to Complex Geometry

## 2 SEMESTER (30 ECTS)
- Complex Geometry
- Key courses:
  - Difference Equations in Several Variables
  - Homology Theory
  - Topics in Contemporary Algebraic Geometry

## 3 SEMESTER (30 ECTS)
- Integral Methods of Complex Analysis
- Key courses:
  - Integral Representations and Transforms
  - Operator Equations in Hilbert Spaces

## 4 SEMESTER (30 ECTS)
- Research + Master Thesis

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Complex Analysis
Prof. **August Tsikh**, Doctor of Sciences in Mathematics and Physics, who worked at the universities of Stockholm, Bordeaux, Berlin, Calabria (Italy), Armidel (Australia), Max Planck Institute in Bonn, Institut Mittag-Leffler in Stockholm.

**Teaching staff**
The program provides an opportunity to learn from the leading specialists in multidimensional residue theory, integral representations, and difference equations. The research project may be carried out in the laboratory of complex analysis and differential equations led by Prof. **Ari Laptev** (Imperial College London). As a rule, the program is finished with a ready for publication paper.
Upon successful completion of the program students will
❄ master complex analysis terminology, basic definitions and statements;
❄ recognize the problems the complex analytic methods might solve;
❄ identify the knowledge required for solving a problem;
❄ be able to select and employ appropriate methods for analyzing problems in complex analysis;
❄ prove rigorously mathematical statements and formulate precise mathematical arguments.
About the program
This program is designed to prepare graduates with a range of skills, including engineering and management. It is focused on providing students with detailed theoretical knowledge on the technology required and all major engineering related elements associated with the oil refining lifecycle. Moreover, the program is focused on preparing specialists in the field of exploitation, research and development of technologies involved in petroleum production and refining processes.

Unique characteristics
This program is specifically designed to enhance professional knowledge and skills of recent graduates or mid-career professionals in the field of petrochemical and oil refining processes. It provides the participants with proficiency in the basic equipment setting and optimization of existing technologies. The program also is devoted to equipping students with modeling skills of technological processes and practical management skills.

Career opportunities
The program is designed for current and future employees of oil companies. The program provides students with means of promotion. With a Master’s degree in Chemical Sciences, you can obtain a position in one of the largest public or private refineries and petrochemical plants, such as Rosneft, Gazprom etc.
### Program content and structure

Partners of SibFU School of Petroleum and Natural Gas Engineering are Rosneft, Gazprom, the Siberian Branch of the Russian Academy of Science and others.

#### 1 SEMESTER (30 ECTS)

<table>
<thead>
<tr>
<th>Module 1</th>
<th>Module 2</th>
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<tbody>
<tr>
<td>&quot;System modeling&quot;</td>
<td>&quot;Quality and project management&quot;</td>
</tr>
<tr>
<td>Mathematical modeling</td>
<td>Quality management</td>
</tr>
<tr>
<td>Chemical process modeling</td>
<td>Project management</td>
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#### 2 SEMESTER (30 ECTS)

<table>
<thead>
<tr>
<th>Module 4</th>
<th>Module 6</th>
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<tbody>
<tr>
<td>&quot;Ensuring quality and reliability of technological equipment&quot;</td>
<td>&quot;Deep oil refining processes&quot;</td>
</tr>
<tr>
<td>Module 5</td>
<td>Optional course &quot;Russian language&quot;</td>
</tr>
<tr>
<td>&quot;Feedstock evaluation and composition&quot;</td>
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#### 3 SEMESTER (30 ECTS)

<table>
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<tr>
<th>Module 8</th>
<th>Module 10</th>
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<tbody>
<tr>
<td>&quot;Petrochemicals production processes&quot;</td>
<td>&quot;Industrial Catalysis (On-line)&quot;</td>
</tr>
<tr>
<td>Module 9</td>
<td></td>
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<tr>
<td>&quot;Polymer technology&quot;</td>
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#### 4 SEMESTER (30 ECTS)

<table>
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<tr>
<th>Module 13</th>
<th>Module 14</th>
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<tbody>
<tr>
<td>&quot;Technology of processing heavy oils, bitumen and residue&quot;</td>
<td>&quot;Recycling of resources&quot;</td>
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The State Final Examination
Fedor A. Buryukin, PhD in Chemistry, Director of School of Petroleum and Natural Gas Engineering, SibFU. Associate Professor, Department of Chemistry and Technology of Natural Energy Resources and Carbon Materials.
Director of Scientific and Educational Center “SibFU Corporate Oil and Gas Center”.
Engineer, Sector Development Projects of JSC “Achinsk Refinery”.

Fedor A. Buryukin is the author of more than 100 scientific papers. He participated in various international conferences in Spain, China, France, Switzerland, Malaysia, Canada, and Singapore. Laureate of the corporate grants JSC NK “Rosneft”, JSC “Achinsk Refinery”, JSC “Vankorneft” for achievements in science and education.

**Teaching staff**
Highly trained and knowledgeable team of academics from SibFU, specialists from refining enterprises and international leading business coaches will guide students through theories, models, and practices on the program.

*Remember, when you choose School of Petroleum and Natural Gas Engineering, there will always be someone who can give you a helping hand!*
In terms of facilities the ones here of a high standard both in the faculty and dormitory. Also I like the way we get associated with our tutors and lecturers. When you need any additional information or help regarding the course content, you can easily contact the teaching staff.

In the program students are involved in real research and engineering projects with experienced team of tutors, and have a possibility to publish papers of new advanced results. All the courses of the program are intended to develop students' abilities to apply their research skills in science and high-tech areas.

Joseph, a Master student

This field of petroleum chemistry and refining is actively developing nowadays and we are waiting for young researchers in SibFU!
Specialised English-taught International Semester Programs of Master's level
### Specialised English-taught International Semester Programs of Master's level

<table>
<thead>
<tr>
<th>Program Title</th>
<th>Starting date</th>
<th>Duration</th>
<th>ECTS credits</th>
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<tbody>
<tr>
<td>Bioluminescent Biotechnologies</td>
<td>February, 1</td>
<td>18 weeks</td>
<td>30 ECTS</td>
</tr>
<tr>
<td>Complex Geometry</td>
<td>October, 1</td>
<td>18 weeks</td>
<td>30 ECTS</td>
</tr>
<tr>
<td>Embedded Microprocessor Systems</td>
<td>October, 1</td>
<td>18 weeks</td>
<td>30 ECTS</td>
</tr>
<tr>
<td>Integral Methods of Complex Analysis</td>
<td>February, 1</td>
<td>18 weeks</td>
<td>30 ECTS</td>
</tr>
<tr>
<td>Modelling of Processes of Oil Refining</td>
<td>October, 1</td>
<td>18 weeks</td>
<td>30 ECTS</td>
</tr>
<tr>
<td>Nonferrous Metallurgy</td>
<td>February, 1</td>
<td>18 weeks</td>
<td>30 ECTS</td>
</tr>
<tr>
<td>Technologies of Hydrocarbons Processing</td>
<td>February, 1</td>
<td>18 weeks</td>
<td>30 ECTS</td>
</tr>
<tr>
<td>Technologies of Life Support Systems and Risk Management in the High North</td>
<td>February, 1</td>
<td>18 weeks</td>
<td>30 ECTS</td>
</tr>
</tbody>
</table>

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Opportunities for Exchange Students

English-taught semester program of Master level at SibFU is a good opportunity for exchange students to take courses different from their home university, experience a variety of teaching methods and develop independent learning skills in order to pursue their own area of academic interest.

Specialised English-taught International Semester Programs of Master's level
Bioluminescent Biotechnologies
Specialised English-taught Semester Program of Master's level

The Program is aimed at students having background in natural science and wishing to master contemporary methodology of scientific research in order to pursue career in the field of biological engineering.

«Despite the fact that many countries are doing research into the practical application of bioluminescence, fundamental chemical research in this field has ceased almost everywhere else in the world except Russia». Osamu Shimomura, Nobel Laureate in Chemistry

The major part of the Program’s training takes place at the modern and well-equipped SibFU Laboratory of Bioluminescent Biotechnologies, led by Nobel Laureate Professor Osamu Shimomura, in one of the world’s strongest team of scientists engaged in fundamental research of light emission by living organisms, i.e. bioluminescence.
Complex Geometry
Specialised English-taught Semester Program of Master's level

The program aims to introduce students to the fundamentals of the geometry of complex space and its subsets and basic methods of their study. Algebraic geometry and the language of amoebas (and coamoebas) of complex sets combine to produce a powerful tool of contemporary mathematical research in different areas: from PDE and difference equations to algebraic and hypergeometric functions.

The program provides an opportunity to learn from the leading specialists in multidimensional residue theory, integral representations, and difference equations. The research project may be carried out in the laboratory of complex analysis and differential equations led by Prof. Ari Laptev.
Embedded Microprocessor Systems
Specialised English-taught Semester Program of Master's level

The Program is aimed at teaching students how to design embedded systems based on modern microprocessors, microcontrollers, and programmable integrated circuits at a high professional level. The formed skills cover the full cycle of intelligent embedded systems development.

The expansion of the scope of intelligent embedded microprocessor systems is one of the main trends in computer technology. Subject matter experts are in demand in the labour market, but their training requires complex technical equipment found within the educational process, as well as the professional and practical experience of the teaching staff. All these conditions are available to the participants of this semester program.

Additional requirements:
1. C/C++ programming
2. Finite-state automaton
3. Electronics and Circuitry
4. Computer Architecture
Integral Methods of Complex Analysis
Specialised English-taught Semester Program of Master's level

The program introduces students to integral representations and transforms in several variables, which is a unifying theme of complex analysis that can resurface in any research dealing with complex analytic objects. Specifically, in the program courses there considered their applications to analysis of differential and operator equations in Hilbert spaces as well as to the construction of residue currents.

The program provides an opportunity to learn from the leading specialists in multidimensional residue theory, integral representations, and difference equations. The research project may be carried out in the laboratory of complex analysis and differential equations led by Prof. Ari Laptev.
Modeling of Processes of Oil Refining  
Specialised English-taught Semester Program of Master's level

The aim of the semester program is to form students' basic knowledge of modern methods of functional, simulated and mathematical modeling of industrial processes and petroleum refining and petrochemicals systems. "Modeling of Processes of Oil Refining" is designed for current and future employees of oil and gas companies. The program provides students with means of promotion.

The processes associated with chemical technology are very complex. Foremost, these are chemical transformations in devices of various designs. Modern level of computer technology development expands the possibilities of simulation systems used in chemical reactions research underlying industrial processes. Upon completion of the module, students will know modern methods of modeling of chemical and technological processes, and will be able to implement mathematical models of processes in applied software (e.g. AspenTech, Honeywell, InvensysSystems).
Nonferrous Metallurgy
Specialised English-taught Semester Program of Master's level

The aim of the program is to provide students with professional competences in metallurgy of nonferrous metals. On the successful completion of the course students will have an experience of research work and practical skills needed for solving metallurgy problems.

The course has been designed to provide a theoretical knowledge required by professionals within the metallurgy industry and aluminium production technologies. Practical trainings and research work are conducted at the laboratories of Siberian Federal University and aluminium production company RUSAL.
The aim of the semester program is to form students' basic knowledge of modern methods of functional, simulated and mathematical modeling of industrial processes and petroleum refining and petrochemicals systems. "Modeling of Processes of Oil Refining" is designed for current and future employees of oil and gas companies. The program provides students with means of promotion.

The processes associated with chemical technology are very complex. Foremost, these are chemical transformations in devices of various designs. Modern level of computer technology development expands the possibilities of simulation systems used in chemical reactions research underlying industrial processes. Upon completion of the module, students will know modern methods of modeling of chemical and technological processes, and will be able to implement mathematical models of processes in applied software (e.g. AspenTech, Honeywell, InvensysSystems).
The main strategic task of the Semester Program is to introduce ways for future development of the Northern and Arctic zones based on high-tech scientific technologies for the technogenic safety. Management methodologies and techniques for operation, maintenance, reliability, safety management, ecological risks and emergency preparedness for industrial innovative complex engineering systems are covered in the program.

Classes are held in an interactive form and can be taught in the form of intensive courses, thus maximizing creative potential and helps to establish new business and scientific contacts. Students will closely collaborate with fundamental and applied researchers from the Institute of Computational Technologies of SB RAS (ICT SB RAN), EMERCOM of the Krasnoyarsk Territory, JSC «Zeleniy gorod», and with our foreign partners: Harbin Institute of Technology, and Zhejiang University of Science and Technology.
University and City
University Campus
Home away from home

Siberian Federal University offers on-campus accommodation. Most of the territory of SibFU is located in a forested area in the vicinity of the Krasnoyarsk Scientific Center. Academic buildings and dormitories of the university are surrounded by natural evergreen forest lands. International students are accommodated at the University’s on-campus dormitories. SibFU provides comfortable residence halls with en-suite block of rooms for 4 or 5 people. Dormitory room-blocks have:
  showers;
  washing machines;
  fridges;
  electric cookers;
  microwave ovens.
University residences are the ideal way to meet new people and build those all-important new friendships.
SibFU Library provides an extensive collection for learning: 2419610 books, 567 periodicals, 147 of them in electronic form. Students have access to more than 46 databases of the largest Russian and international publishing companies and info centers, including Russian Science Citation Index (RISC) and international databases: Science Citation Scopus, Web of Science, Journal Citation Reports (JCR). Library’s website BIK.SFU-KRAS.RU – unified access point for library facilities, electronic catalogs and remote access resources.
Student Services on Campus

Food Services

You can find a plenty of cafeterias, cafes and coffee corners at the university campus, where you can enjoy a light or a full meal. In the main cafeterias you can try national Russian cuisine, such as borscht, pancakes, pelmeni and cutlet. Cafe “Barcelona” offers European cuisine - freshly-made and including a variety of organic products. Vegetarian meals are also presented.
SibFU provides the following services for international students:

**Pre-admission consultation**
Department of International Educational Programs supply prospective students with all necessary information about programs and courses available at SibFU. All queries can be addressed to study@sfu-kras.ru

**International Department**
Our International Department helps international students to enroll into SibFU, especially it provides an invitation letter for a Russian study visa, assists with diploma validation and supports international students during their study. e-mail: admission@sfu-kras.ru e-mail: oska@sfu-kras.ru

**Russian Language courses**
At the beginning of each academic year all the SibFU creative teams invite all 1st-year students (and not only them!) to enroll in a team, studio, or any favorite band. We offer students to enroll in the following creative teams of the University:

- Bard music clubs;
- Vocal studios;
- Rock club;
- Theater groups;
- Dance groups;
- Literature clubs;
- Instrumental club.
Student Services on Campus

Sport Facilities

There are plenty of sports facilities at the University, including various sports centres, swimming pools, stadiums and football pitches, ski courses and gyms all over the campus.

Some of the world-praised sportsmen currently study and teach at SibFU, including Olga Medvedtseva (two-time Olympic champion and multiple World champion in biathlon), Evgeny Ustyugov (two-time Olympic champion, Europe and World champion in biathlon), Dmitry Trunenkov (Olympic champion in bobsleigh), Nazir Mankiev (Olympic champion in Greco-Roman wrestling), and many more.
The decision to hold the Universiade in Krasnoyarsk was made by the International University Sports Federation (FISU) November 9, 2013 in Brussels. The Universiade Village — there will be built four objects at the University campus directly to the Universiade. Three of them will be located in the territory of the first and fourth sites of SibFU within the boundaries of the main campus.
XXIX World Winter Universiade
THREE STEPS

What should you do?

1. Fill in an on-line application form, provide a copy of international passport, a copy of educational documents in English, a motivation letter, a recommendation letter, documents confirming a good command of English. Skype interview is also possible.

2. Transfer the tuition fee for the first year of your study, sign and send a scanned copy of the learning agreement.

3. Get the visa, book a flight to Krasnoyarsk, send to an admission officer the information about your travel route (airline, flight number, arrival time, etc.) in order to organize the pick-up service.

What will we do?

1. Send the official letter of admission, a learning agreement and a payment receipt.

2. Send the the invitation letter required for your visa.

3. Meet students at the airport, transfer them to the campus and arrange their accommodation.
Web Site and Social Media

Contact Information

 AVR web page: sfu-kras.ru/en/education
 AVR e-mail: study@sfu-kras.ru
 AVR Facebook: facebook.com/StudySibFU
 AVR Instagram: @sfuniversity
 AVR Vkontakte: vk.com/international_education_sibfu
 AVR Twitter: @sibfuniversity @sibfulive
Krasnoyarsk is the administrative capital of Krasnoyarsky kray – second largest region of Russia. It is a big industrial and educational centre with a population of more than 1 million people, and also an important junction of the Trans-Siberian Railway.
Krasnoyarsk offers many opportunities for relaxation, entertainment and sightseeing. Students appreciate the attractive, green city center where the modern architecture and historical buildings dominate the streets lined with bustling stores and cafes. There are theatres, galleries and museums, including the museum of the famous Russian artist Vasily Surikov. Krasnoyarsk is called «the city of fountains» due to more than 150 fountains scattered through the city.
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