Dear candidates! Perhaps right at this moment you are making a final decision to enroll at our university. If so, you will make the right choice. With its glorious past, remarkable present and brilliant future, MEPhI is one of the most prestigious and iconic universities in Russia.

Today MEPhI is a Russian national research and education center with branches in all the regions, where our main partner, Rosatom State Atomic Energy Corporation is present. MEPhI’s name is associated with the highest quality of education. Our University is known for a unique approach to education, which combines fundamental training in physics and mathematics with comprehensive practical engineering skills. We also actively involve students in scientific research.

To enhance national prestige does not mean to stay within the national borders. Our students have internships in the leading universities all over the world. Every year more and more foreign students come to MEPhI, and leading foreign scientists are engaged in teaching at our University. I hope you will graduate with honors from your schools and become MEPhI students.

Studying in MEPhI means succeeding in life and becoming a true expert!
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</tbody>
</table>
Since its foundation the University has been the center of development of the advanced scientific and technical thought, training highly professional specialists for the strategically important spheres of the Russian economy, including nuclear industry. Within its walls serious research activities have been carried out and innovative solutions have been developed and implemented. Today same as all the past decades MEPhI is well known for its strong traditions, competent teaching staff, talented and enthusiastic students. That is why MEPhI's diploma is the evidence of one's profound knowledge and a guaranteed start in life.

Vladimir V. Putin,
President of the Russian Federation

6 unique advantages

1 Student design bureaus
2 Internationally accredited educational programs
3 Internships in the world leading science centers and laboratories
4 MEPhI’s unique experimental facilities and centers
5 Advanced educational programs
6 Modular education, student-oriented

MISSION

To generate, promote, use and preserve scientific knowledge aiming to address global challenges of the XXI century as well as to provide innovative transformations in Russia and to develop the country’s competitiveness in the global energy and non-energy high-tech markets.

WORLD-CLASS SCIENCE AND RESEARCH

The University is a recognized leader and has the unique expertise and advantages in the following breakthrough directions:

- nuclear research and engineering;
- laser, plasma and beam technologies;
- microwave nanoelectronics;
- nanobiotechnologies, biomedicine and medical physics;
- information technology.

World-class research areas are being developed on the basis of the main MEPhI research areas:

- space research and technologies;
- controlled thermonuclear fusion;
- materials for nuclear and space applications.

PARTICIPATION IN INTERNATIONAL COLLABORATIONS

Science has come to a point where we need to construct major facilities to generate new knowledge. The resources of a single country, no matter how large, appear not to be enough to build such facilities. Thus international collaborations from small ones, with participation of only several countries to large ones with participation of tens of countries and hundreds of organizations are being established. The most well-known projects include ITER (France) – 34 countries, 150 organizations and Large Hadron Collider (Switzerland) – 42 countries, 184 organizations. MEPhI is an active participant of more than 30 research collaborations, where students can have their internship and research practice, write their thesis.

The educational process of the University is based on three key concepts: education, science and innovation, their close interconnection is ensured by research work.
All these years MEPhI’s staff have successfully combined traditions of the national higher education with the advanced training programs. The University holds the leading positions in the world in training of highly qualified specialists for fundamental science, nuclear industry and other knowledge-intensive industries. Skills and knowledge of MEPhI’s graduates, their research and engineering designs are in high demand in science and industry, they increase the competitiveness of our country on the world level.

Vyacheslav V. Volodin, Chairman of the State Duma of the Federal Assembly of the Russian Federation

### International rankings*

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</tr>
</thead>
<tbody>
<tr>
<td>Physical sciences</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Physics and astronomy</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
</tr>
<tr>
<td>Overall ranking</td>
<td>89</td>
<td>51/100</td>
<td>90</td>
<td>19</td>
<td>146</td>
</tr>
<tr>
<td>In the world</td>
<td>In the world</td>
<td>In the world</td>
<td>In BRICS countries</td>
<td>In the world</td>
<td>In the world</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ranking</th>
<th>QS World University Rankings</th>
<th>QS World University Rankings</th>
<th>The Times Higher Education</th>
<th>Round University Ranking</th>
<th>U.S. News &amp; World Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural science</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Quality of teaching</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
</tr>
<tr>
<td>In the world</td>
<td>In the world</td>
<td>In the world</td>
<td>In the world</td>
<td>In the world</td>
<td>In the world</td>
</tr>
</tbody>
</table>

MEPhI has been in TOP-100 of THE subject ranking «Physical Science» for five years in a row, and it has been in TOP-100 of QS subject ranking «Physics and Astronomy» for four years in a row.

In 2017 MEPhI was recognized by Web of Science with the Award for the best publishing strategy.

### National rankings*

<table>
<thead>
<tr>
<th>Ranking</th>
<th>MEPhI</th>
<th>MEPhI</th>
<th>MEPhI</th>
<th>MEPhI</th>
</tr>
</thead>
<tbody>
<tr>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
</tr>
<tr>
<td>«Three missions»</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Times Higher Education</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
<td>in Russia</td>
</tr>
<tr>
<td>Overall ranking</td>
<td>373</td>
<td>131</td>
<td>401/500</td>
<td>231</td>
</tr>
<tr>
<td>In the world</td>
<td>In the world</td>
<td>In the world</td>
<td>In BRICS countries</td>
<td>In the world</td>
</tr>
</tbody>
</table>

- Rating of the demand for higher education institutions in the Russian Federation
- «Social Navigator» media group «ROSSIYA SEGODNIA» with the participation of the Center for Labor Market Research, the 1st place among Russian engineering universities.

 Vyacheslav V. Volodin, Chairman of the State Duma of the Federal Assembly of the Russian Federation
The history of the leading Russian scientific center is inextricably connected with the success of our country in fundamental sciences and breakthrough directions of technology development. In the course of the years of its work the University has established leading scientific schools by setting the trend for the national scientific and technical development. It has trained tens of thousands of qualified specialists for the high-tech industries of the national economy. Today the highest professionalism of the staff, continuity and preservation of the University’s vast experience and rich traditions in combination with the excellent organization of the research process allow the most complex projects with enormous challenges to be realized at MEPhI.

Olga Y. Vasilieva,
Ministry of Education and Science of the Russian Federation

MEPhI was founded during the Second World War in 1942 and made a great contribution to the national victory. It was called Moscow Mechanics Institute of Ammunition. Its original purpose was to train specialists for the Soviet Union military and nuclear programs.

MEPhI was awarded with the Order of the Red Banner of Labour

Great scientists and prominent public officials were among the founders of MEPhI: I.V. Kurchatov, B. L. Vannikov, Y. B. Zel'dovich, N.N. Semenov, A. I. Leipunskii and many others.

I. E. Tamm  I. M. Frank  N. N. Semenov  N. G Basov  A. D. Sakharov  P. A. Cherenkov

In 2008 MEPhI was reorganized and renamed as the Federal State Budgetary Educational Institution of Higher Professional Education «National Research Nuclear University (MEPhI)». Educational institutions under the Ministry of Education and Science of the Russian Federation and «Rosatom» in cities where the nuclear enterprises are located were affiliated to MEPhI.

Transformation of MEPhI by Investing in

- Recruitment of leading international academic staff
- Development of MEPhI innovation environment
- Internationalization of the educational environment
- Implementation of «Open innovation» principles in the activities of StrAUs

INTERNATIONAL POSITIONING OF MEPhI

- Becoming a world-class academic center
- Operating as a university with a sustainable academic reputation
Education in MEPhI

Today MEPhI is the key university of the nuclear industry, which uses the high standards of education on all the levels: university-technical high school-college-secondary school. You are represented in almost all of our cities, which makes you one of the most regionally distributed universities. Education and professions that people acquire at MEPhI not only allow them to become well prepared specialists, but also provide continuity of generations in the enterprises including the cities of the “Rosatom” presence.

Alexey E. Likhachev,
General Director of Rosatom State Atomic Energy Corporation

HOW TO ENROLL AT MEPHI

1. ADMISSION
Choose the direction of training and the Institute/Faculty at MEPhI where you want to study

2. UNDERGRADUATE STUDY 1–2 YEARS
Get your fundamental general training in the chosen field (physics and engineering, information, humanities and social sciences) in the Institute of undergraduate study (IUS). IUS includes:

- wide range of humanities and social sciences curricula including curricula aiming at personal development;
- language training, an opportunity to receive a Certificate;
- variety of electives;
- credit-modular learning system, flexible learning track;
- level of training options (advanced, basic, adaptive);
- international grading scale - 100-points (F, E, D, C, B, A);
- participation in projects starting from the 1st year.

3. NUMBER OF EDUCATION TRACKS FOR EACH LEVEL:

<table>
<thead>
<tr>
<th>Level</th>
<th>Tracks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor</td>
<td>44</td>
</tr>
<tr>
<td>Specialist</td>
<td>17</td>
</tr>
<tr>
<td>Master</td>
<td>29</td>
</tr>
<tr>
<td>PhD</td>
<td>20</td>
</tr>
</tbody>
</table>

4. PROSPECTS
Choose an interesting job:

- you have excellent academic performance (A grades);
- you have language certificate (IELTS, TOEFL, TOEIC);
- you may have more honor courses;
- you have achievements in the projects.

5. PROFESSIONAL TRAINING
INSTITUTES AND FACULTIES 3, 4 (5) YEARS
Become a professional while studying. Your opportunities include:

- work in acting science groups (teams) of the leading academic centers of the University for major program;
- realization of initiative, innovative projects in the engineering centers, student design and research bureaus, Small Innovative Enterprises;
- participation in the programs of academic mobility;
- participation in the Megascience projects within the framework of the students programs;
- internships at the leading Russian and foreign universities and science centers;
- work in real innovative projects of the University and partners organizations;
- possibility of combining teaching and research activities;
- PhD defense at MEPhI Dissertation Councils.

6. MASTER AND POSTGRADUATE/PHD PROGRAMS (INSTITUTES/FACULTIES)
Become a young scientist. Your options include:

- a wide range of research areas from nuclear engineering to international relations;
- work in acting science groups (teams) of the leading academic centers of the University;
- internships at the leading Russian and foreign universities and science centers;
- participation in the programs of academic mobility and the Megascience projects;
- possibility of combining teaching and research activities;
- PhD defense at MEPhI Dissertation Councils.

Education in MEPhI

12 13
Variability and flexibility of educational programs since 2017

**BACHELOR PROGRAMS**

Institute of Undergraduate Study, 2 years

- Strategic Academic Units (StrAU), 3 years
  - **NATURAL SCIENCES**
    - LASER AND PLASMA TECHNOLOGIES (LaPlas)
  - **TECHNOLOGIES**
    - ENGINEERING PHYSICS FOR BIOMEDICINE (PhysBio)
  - **HUMANITIES AND SOCIAL SCIENCES**
    - NANOENGINEERING IN ELECTRONICS (NESPI)
  - **IT BASICS**
    - CYBER INTELLIGENCE SYSTEMS (ICIS)

- Best math, physics, and IT faculty staff
- Personal curators for building learning tracks
- Advanced English curriculum

**MASTER AND PHD PROGRAMS**

Strategic Academic Units (StrAU), 3 years

- **NATURAL SCIENCES**
  - NUCLEAR PHYSICS AND ENGINEERING (INPhI)
  - LASER AND PLASMA TECHNOLOGIES (LaPlas)
  - ENGINEERING PHYSICS FOR BIOMEDICINE (PhysBio)
  - NANOENGINEERING IN ELECTRONICS (NESPI)
  - CYBER INTELLIGENCE SYSTEMS (ICIS)

- 6-months inclusive education abroad
- Business and Internship curriculum
- Flexible learning track: 30–70% share of electives
- Academic writing and presentation in English
- Working in research groups, team projects

Academic staff of the University are constantly working on quality improvement of the education process, being in constant creative search and in close collaboration with leading research institutions of our country. The University creates conditions and opportunities for free expression of thoughts and ideas, it supports the cult of knowledge and pursuit of success.

Vladimir V. Uiba,
Director of the Federal Biomedical Agency
High quality of education

Quality of the research is in the focus

The average citation of publications per 1 faculty (five years)

<table>
<thead>
<tr>
<th>Year</th>
<th>Web of Science</th>
<th>Scopus</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>18.3</td>
<td>19.8</td>
</tr>
<tr>
<td>2014</td>
<td>27.95</td>
<td>30.9</td>
</tr>
<tr>
<td>2015</td>
<td>34.7</td>
<td>34.9</td>
</tr>
<tr>
<td>2016</td>
<td>43.8</td>
<td>44.0</td>
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The total number of publications, Scopus

<table>
<thead>
<tr>
<th>Year</th>
<th>Publications</th>
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<tbody>
<tr>
<td>2012</td>
<td>687</td>
</tr>
<tr>
<td>2013</td>
<td>732</td>
</tr>
<tr>
<td>2014</td>
<td>1117</td>
</tr>
<tr>
<td>2015</td>
<td>2153</td>
</tr>
<tr>
<td>2016</td>
<td>2604</td>
</tr>
</tbody>
</table>

The total number of publications, Scopus

7293 publications in total

2013 2014 2015 2016

Web of Science
Scopus

Industrial partnerships network expansion

The share of publications with industrial partners, %

According to the analytical system SciVal for 2016

- Tokyo Institute of Technology: 6.5%
- Technical University of Munich: 5.5%
- MEPhI: 5.3%
- MIT: 5.2%
- Delft University of Technology: 4.5%
- ETH Zurich: 4.3%

Admission of talented students as the basis for the development

- Pre-university
  - university lyceum № 1511
  - university lyceum № 1523
  - evening lyceum

- MEPhI Network school

- Prototyping resource centers

- Test site

- Laboratories in basic schools of the University

- WorldSkills

System of digital education

>100 000 registered students from 153 countries

MOOC-COURSES
Massive open online courses

CLP4NET

Pilot educational projects:
- Pre-university, engineering and atomic classes, University Saturdays

Specialized Olympiads and competitions

Project activity of schoolchildren

Flexible educational path
Institute of Nuclear Physics and Engineering (INPhE)

Institute of Financial and Economic Security (IFES)

Institute of International Relations (IIR)

Institute for Nuclear Power Engineering (OINPE)

Institute of Engineering Physics for Biomedicine (PhysBio)

Institute of International Relations (IIR)

Institute of Laser and Plasma Technologies (LaPlas)

Institute of Intelligent Cyber Systems (ICiS)

Faculty for Physics and Technology (FPT)

Faculty for Business Informatics and Integrated Systems Management (FBIIISM)

Institute for Nanoengineering in Electronics, Spintronics and Photonics (NESPI)
MISSION

Nuclear physics and engineering have been the drivers of the world science development from the very beginning. Fundamental research of the Universe, which indirectly influences all mass technologies, is carried out in the nuclear centers. It is no surprise that the Internet was invented in the international nuclear center CERN.

INPhE students are provided with traditional for MEPHI training in physics and mathematics and they can choose specialization in a wide range of nuclear technologies from nuclear power and new materials to cosmology and particle physics.

If countries choose nuclear power, our work is to help them use it in a safe, reliable and sustainable way.

Yukiya Amano,
IAEA General Director

INPhE

Institute
of Nuclear Physics
and Engineering

+7 (495) 788-56-99, EXT. 8032  INPHE.MEPHI.RU

GENERAL INFORMATION

Institute is engaged in scientific research and innovation activities, in training of the specialists for research in the fields of physics of matter structure, cosmophysics, directed at search of new states of matter and energy sources, as well as engineering and technical and innovation activities in the sphere of nuclear technologies, new materials development, nuclear power plants improvement.

Institute’s advantages include active collaborations with the leading international nuclear centers and participation in Megaprojects together with the scientific institutes of the Russian Academy of Science and State Corporations “Rosatom”, “Roscosmos”, “Rostec”.

Students are offered international educational programs in two languages, accredited according to the international standards, including programs, realized together with the European universities, MEPHI partners, members of the European Nuclear Education Network of Science in Nuclear Engineering (MSNE) ENEN.
The Institute addresses various challenges, from fundamental research to creation of new technologies. The Institute has a developed experimental base on the University campus and cooperates with the biggest universities and research centers, such as CERN (Switzerland); XFEL, GSI and FZ Julich (Germany); ITER (France); TRIUMF (Canada); Osaka University (Japan), etc.

Graduates of the Institute's departments work in the leading universities and laboratories in different countries as well as in the biggest Russian and foreign business companies. The majority of the students publish the results of their works in the leading international physics journals and present them at international conferences.

Enrolling at our Institute, you choose not only a profession ensuring your welfare but a lifestyle of a physicist or an engineer who will shape the future of the humankind!
Institute of Engineering Physics for Biomedicine

Within the framework of the Institute, research is carried out in the interdisciplinary field of nuclear medicine technologies and nanotechnologies for biomedicine. New technologies and devices for diagnostics and therapy of dangerous diseases are being developed, which include radiopharmaceuticals for nuclear medicine. New high-performance methods of computer nanomedicine are being created.

Undergraduate and graduate students are involved in scientific research and they also actively participate in inventive, rationalizing activities as well as in solving urgent problems of the national economy.

During their study, students have the opportunity to undergo internships and production practices in leading foreign scientific and educational centers: University of Aix-Marseille (France), University of Buffalo (USA), Pernambuco Federal University (Brazil), Reims Champagne-Ardennes University (France), the University of Ulm (Germany), the University of Lorraine (France), the University of Oulu (Finland), the Lyon Institute of Nanotechnology (France), the University of Lyon (France), the Rochester University (USA), the Turin Polytechnic ATU (Italy), Poly-Technical University of Valencia (Spain), and others.

In the nearest future, medicine will gather together teams of medical doctors and biotechnology engineers. 3D-printing of vital organs, digital twins, on-line medicine, laser-, nuclear-, nano- and IT-technologies are at the base of Hi-tech medicine of tomorrow.

MEPhI is in a unique position possessing various aspects of physics, nuclear technologies and biomedicine. MEPhI is able to influence the development of biomedicine not only in Russia, but all over the world.

Paras N. Prasad, Chairman of the International Council of PhysBio

The PhysBio was founded to prepare highly qualified interdisciplinary specialists for advanced scientific research and physics engineering.

MISSION

Within the framework of the Institute, research is carried out in the interdisciplinary field of nuclear medicine technologies and nanotechnologies for biomedicine. New technologies and devices for diagnostics and therapy of dangerous diseases are being developed, which include radiopharmaceuticals for nuclear medicine. New high-performance methods of computer nanomedicine are being created.

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Paras N. Prasad, Chairman of the International Council of PhysBio

The PhysBio was founded to prepare highly qualified interdisciplinary specialists for advanced scientific research and physics engineering.
The unique laboratories at MEPhI’s Nanocenter allow students to master practically all modern research methods of devices and materials parameters, as well as to design, assemble and test its own devices or circuit elements. NESPI labs are equipped with modern software (CAD) and hardware. The main areas of the Institute work include specialized electronics for industrial applications, electronics based on new physical principles such as quantum, terahertz, photonics, spintronics; novel devices and materials for heterostructural microwave electronics (GaN, SiC), methods of mathematical modeling and new architectures for modern nanoelectronics.

The Institute cooperates with leading industrial and research organizations in Russia, among others JSC «Roselectronics», State Corporation «Rosatom», the Russian Academy of Sciences (RAS). NESPI graduates have a world-class training needed on a global labour market.

During the training at the Institute students will obtain professional knowledge and skills in various stages of the production cycle of modern electronics: from computer modeling of materials parameters to testing of a finished instrument or a circuit.
Institute of Cyber Intelligence Systems is a unique platform for modern education in the field of Information Technologies and Applied Mathematics. The Institute carries out training of personnel with relevant competencies in the field of protected computer technology, cryptography, intelligent analysis, parallel and distributed data processing, mathematical modeling, digital equipment, robotics, machine learning, etc.

The Institute conducts R&D and innovation activities, which occupy a central place in the educational process. In particular, the Institute hosts 4 small innovative enterprises where students have the opportunity to practice and engage in modern IT projects. In addition, the Institute cooperates with key employers in the field of IT technologies: Rosatom, Rosfinmonitoring, Mail.ru, Kaspersky Lab, etc. – actively involved in the educational process.

Students of MEPhI have a solid scientific basis to become experts in cyber security. I am sure they will become excellent professionals.

Bart Preneel,
Full Professor of the Electrical Engineering Department of the Katholieke University Leuven, Belgium
International Association for Cryptologic Research (IACR) President
The Institute is the first and so far the only higher educational institution in Russia for training personnel for solving the financial monitoring problems in a form of a full educational cycle including basic higher education, master’s and postgraduate degrees as well as advanced training.

**MISSION**

Training of the highly qualified specialists in the field of financial monitoring, information and economic security, economics, audit and national law based on the integration of science and academic mobility of students, advanced educational technologies for solving the problems of financial and economic security of the Russian Federation and partner countries in the international anti-laundering system.

**GENERAL INFORMATION**

The advantage of the Institute is a comprehensive training of personnel with advanced knowledge and competence in the field of cybernetics, information and financial security for solving the tasks of combating money laundering, protecting critical facilities that can withstand modern threats and challenges. Graduates of the Institute can apply their knowledge when working in commercial banks, leasing companies, insurance companies, etc.; in financial intelligence units of the member countries of the Eurasian Group; in IT-companies (FORS, Technoserv, CROC, etc.); in consulting companies (PriceWaterhouseCoopers, Ernst & Young, etc.); in international organizations (FATF, World Bank, Egmont Group).
The Institute implements a unique interdisciplinary educational program combining basic science education with humanitarian educational blocks on international relations and special linguistic training. Students have internships in foreign universities and research centers.

The Institute was established in 1999 for staffing the Federal structures: the Ministry of Foreign Affairs, the Ministry of Education and Science, the Ministry of Economic Development, State Corporation «Rosatom», State Corporation «Roskosmos», JSC «Rosoboronexport» and other government departments, scientific and research institutes of the Russian Academy of Sciences (RAS), Russian representative offices abroad. Academic program was created with the support of the academician E.M. Primakov and the academician A. V. Torkunov. The Institute is engaged in training of analysts, managers, specialists in information and PR-technologies for the staffing of the international activity of the Russian Federation.
The Kaluga region, where the campus is located, is a flagship of the cluster model of economic development. Strategic partnership with constantly developing enterprises of pharmaceutics, transport and logistics, ICT-clusters, cluster of polymer composite materials makes teaching of students practically oriented.

Enterprises that make up the core of specialized clusters, act as trainee sites for students in nuclear energy, intellectual computer systems, pharmaceutics, biotechnology, nuclear medicine and management.

The successful location of the campus allows students to use the potential of research institutes, leading enterprises of the region and Moscow itself, specialized resource centers in the partner cities of the distributed MEPhI campus obtaining practical skills and professional competencies.

Today, the Institute conducts training in four directions: bachelor programs (17), master’s degree (15), postgraduate students (9) directions of training.
The system of education at the Faculty is oriented on fundamental physical and mathematical training and practical research work. The advantage of studying at the Faculty is the possibility to undertake an internship at the leading scientific research institutes of State Corporation «Rosatom» and the Russian Academy of Sciences, located in close proximity to the university.

As trainees of leading research institutes, our students can apply knowledge they obtained at MEPhI and have the possibility of further employment.

Our students actively participate in various youth associations, win prizes every year and develop communicative and leadership qualities.

Studying at the Faculty, students can gain knowledge in a wide range of disciplines (nuclear instrumentation, new types of materials, automated design and engineering, electronics and microprocessors, analog and digital signal processing, information transfer systems, computer technologies and multiscale modeling).
The Faculty provides education and training for bachelor’s, master’s and postgraduate students. Scientific and innovative work related to the formation of a space for creating innovations in a real sector of the economy and development of scientific complex projects on «Mesoeconomics», creation of business models for innovative development of «Mesoeconomic» systems – large corporations and territorial complexes (priority development areas – PDA) are under way. Information technologies and hardware and software systems developed for educational process make teaching and learning at the Faculty effective and modern.

The Faculty forms competencies that allow graduates to flexibly respond to changes in the world economy, business, social development, technological structures and to provide a proper place in the world market for domestic structures where they are expected to work.

MISSION
To train highly qualified specialists capable of meeting the contemporary challenges and «taking the helm» of a new industry based on additive technologies, «Big data», cyber-physical production principles, providing innovative development opportunities for the domestic economy and improvement of the business community on the basis of system analysis.
We give our students the opportunity to design their educational track. Starting from the first year, each student can make up his own curriculum, select disciplines that are interesting and necessary for him. It goes without saying that he will not do it alone, but with the support of a tutor and mentors from senior courses. In addition, we offer a large number of additional courses that allow our students to expand their professional and personal competencies, develop their abilities.
The Master’s degree can be obtained by candidates from Russia and foreign countries in the most relevant areas of fundamental and applied sciences and modern technology: nuclear physics and cosmophysics, laser and plasma technologies, micro- and nanoelectronics, photonics, nuclear and computer-aided medicine, biotechnology, computer sciences, robotics, software engineering, information security, etc. Master Degree Programs in MEPhI are an excellent springboard to a career in science, business and public service.

Oleg V. Nagornov, First Vice-Rector, Doctor of Physical and Mathematical Sciences, Professor

Master’s Degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Direction</th>
</tr>
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<tbody>
<tr>
<td>01.04.02</td>
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<tr>
<td>03.04.01</td>
<td>Applied Mathematics and Physics</td>
</tr>
<tr>
<td>03.04.02</td>
<td>Physics</td>
</tr>
<tr>
<td>04.04.02</td>
<td>Chemistry, Physics and Mechanics of Materials</td>
</tr>
<tr>
<td>06.04.01</td>
<td>Biology</td>
</tr>
<tr>
<td>09.04.01</td>
<td>Computer Science and Engineering</td>
</tr>
<tr>
<td>09.04.02</td>
<td>Information Systems and Technologies</td>
</tr>
<tr>
<td>09.04.04</td>
<td>Software Engineering</td>
</tr>
<tr>
<td>10.04.01</td>
<td>Information Security</td>
</tr>
<tr>
<td>11.04.04</td>
<td>Electronics and Nanoelectronics</td>
</tr>
<tr>
<td>12.04.01</td>
<td>Instrument Engineering</td>
</tr>
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<td>12.04.04</td>
<td>Biotechnological Systems and Engineering</td>
</tr>
<tr>
<td>14.04.01</td>
<td>Nuclear Power Engineering and Thermophysics</td>
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<tr>
<td>14.04.02</td>
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<tr>
<td>22.04.01</td>
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<tr>
<td>38.04.01</td>
<td>Economics</td>
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<tr>
<td>38.04.02</td>
<td>Management</td>
</tr>
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<td>38.04.05</td>
<td>Business Informatics</td>
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Postgraduate Degree

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<td>03.00.00</td>
<td>Physics and Astronomy</td>
</tr>
<tr>
<td>14.00.00</td>
<td>Nuclear Power Engineering and Technologies</td>
</tr>
</tbody>
</table>

To enroll at MEPhI within the quota of the Ministry of Education and Science of the Russian Federation (state-funded studying), one should apply to Rossotrudnichestvo representative office or to the Russian Embassy in your country.

This is the list of documents required to enroll at MEPhI (state-funded studying and on a paid basis):

- Passport photocopy, including all the pages containing relevant information about the owner;
- Medical certificate issued by an official healthcare authority of the applicant’s country confirming that the applicant has no contra-indications for studying in Russia;
- Negative AIDS/HIV test certificate issued by an official healthcare authority of the applicant’s country;
- Originals and copies of education certificates along with the full academic records.

You can find the information about the Admission Committee working hours and academic fees on the MEPhI Admission Committee website: admission.mephi.ru/admission2017/baccalaureate-and-specialty/foreign
Over the past few years, the National Research Nuclear University «MEPhI» has significantly expanded its network of partnerships with leading foreign universities, laboratories and associations. Currently, about 1,500 foreign students from 57 countries of the world are studying at the University. In the framework of services export in the field of nuclear education MEPhI trains specialists for partner countries of State Corporation «Rosatom». Nowadays, students, postgraduate students and academic staff from the leading foreign research and education centers undertake internships at the university.

Nikolay M. Dmitriev, Vice-Rector, Doctor of Sociological Sciences, Professor
Export of MEPhI educational programs to target markets overseas

The total number of foreign students studying at MEPhI:

- CIS and Baltic countries: 570
- Non-CIS states: 960

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<thead>
<tr>
<th>Countries in 2014</th>
<th>Countries in 2015</th>
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<tbody>
<tr>
<td>14</td>
<td>23</td>
</tr>
</tbody>
</table>

Countries admitted to MEPhI in 2017:

- 57 countries

The share of foreign professors, lecturers and researchers:

- 2014: 6.6%
- 2015: 12%
- 2016: 18.6%
- 2017: 20.1%
- 2020: 23%

Active participation in the world system of nuclear education

- Regional Network for Education and Training in Nuclear Technology STARNET
- Vienna International Nuclear Competence Centre (VINCC)
- World Nuclear University (WNU)
- Cooperation «Atom-CIS»
- Regional networks of nuclear education
- International Nuclear Management Academy (INMA) of the IAEA
- International networks of nuclear education ENEN and INSEN
- Nuclear Energy Agency NEA/OECD
### Training at Foreign Research Centers

<table>
<thead>
<tr>
<th>Direction</th>
<th>Research and Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NUCLEAR REACTORS AND MATERIALS</strong></td>
<td>Tokyo Institute of Technology, Japan</td>
</tr>
<tr>
<td></td>
<td>Brookhaven National Laboratory, USA</td>
</tr>
<tr>
<td><strong>NUCLEAR POWER PLANTS: DESIGN, OPERATION AND ENGINEERING</strong></td>
<td>Texas A&amp;M International University, USA</td>
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<td></td>
<td>Belarusian State University, Belarus</td>
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<tr>
<td></td>
<td>Belarusian State Technological University, Belarus</td>
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<td></td>
<td>Aalto University, Finland</td>
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<td><strong>PHYSICS</strong></td>
<td>CERN, Switzerland</td>
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<td></td>
<td>Gran Sasso National Laboratory, Italy</td>
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<td></td>
<td>University of Florence, Italy</td>
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<td></td>
<td>University of Rome, Italy</td>
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<tr>
<td></td>
<td>Research Center Jülich, Germany</td>
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<tr>
<td></td>
<td>Brookhaven National Laboratory, USA</td>
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<tr>
<td><strong>ELECTRONICS AND AUTOMATION OF PHYSICS FACILITIES</strong></td>
<td>University of Tübingen, Germany</td>
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<td></td>
<td>University of Cologne, Germany</td>
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<td></td>
<td>University of Applied Sciences of Regensburg, Germany</td>
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<td></td>
<td>University of Brescia, Italy</td>
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<tr>
<td><strong>APPLIED MATHEMATICS AND PHYSICS</strong></td>
<td>CERN, Switzerland</td>
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<td></td>
<td>Ludwig Maximilian University of Munich, Germany</td>
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<td></td>
<td>Polytechnic School, France</td>
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<td></td>
<td>University of Rostock, Germany</td>
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<tr>
<td><strong>APPLIED MATHEMATICS AND INFORMATICS</strong></td>
<td>Texas A&amp;M International University, USA</td>
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<td></td>
<td>Stony Brook University, USA</td>
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<td></td>
<td>Keele University, UK</td>
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<td></td>
<td>Karlsruhe Institute of Technology, Germany</td>
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<td></td>
<td>University of Surrey, UK</td>
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<td></td>
<td>CERN, Switzerland</td>
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<tr>
<td><strong>SOFTWARE ENGINEERING AND INFORMATION SECURITY</strong></td>
<td>University of Reims, France</td>
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<tr>
<td></td>
<td>University of Nantes, France</td>
</tr>
<tr>
<td><strong>MATERIALS SCIENCE AND ENGINEERING</strong></td>
<td>Massachusetts Institute of Technology, USA</td>
</tr>
<tr>
<td></td>
<td>Institute for Energy Technology, Norway</td>
</tr>
<tr>
<td><strong>NUCLEAR PHYSICS AND ENGINEERING</strong></td>
<td>CERN, Switzerland</td>
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<tr>
<td><strong>ELECTRONICS AND NANOELECTRONICS</strong></td>
<td>Graduate School of Engineering Sciences at Kyushu University, Japan</td>
</tr>
<tr>
<td><strong>PHOTONICS AND OPTICAL COMPUTING</strong></td>
<td>Institute for Laser Engineering (ILE), Osaka University, Japan</td>
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<tr>
<td><strong>LASER TECHNIQUE AND LASER TECHNOLOGY</strong></td>
<td>Institute of High Energy Physics, Chinese Academy of Sciences, China</td>
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<tr>
<td><strong>HIGH-TECH PLASMA AND ENERGY FACILITIES</strong></td>
<td>Institute for Crystal Growth, Germany</td>
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<td>University of Rome, Italy</td>
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<td>ITER, France</td>
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<td>Research Center Jülich, Germany</td>
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<td>Max Planck Institute for Plasma Physics, Germany</td>
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<td>German Electron Synchrotron DESY, Germany</td>
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<td></td>
<td>Ludwig Maximilian University of Munich, Germany</td>
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<td></td>
<td>GSI Helmholtz Centre for Heavy Ion Research, Germany</td>
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<td></td>
<td>European Synchrotron Radiation Facility ESRF, France</td>
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<td></td>
<td>Synchrotron Radiation Facility MAX-lab, Sweden</td>
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<td></td>
<td>Synchrotron Facility SOLEIL, France</td>
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<td></td>
<td>University of Bordeaux, France</td>
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<tr>
<td></td>
<td>University of King Abdulaziz, Saudi Arabia</td>
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<tr>
<td></td>
<td>Laboratory LPSC (Laboratory for Subatomic Physics and Cosmology), France</td>
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<tr>
<td></td>
<td>Aalto University, Finland</td>
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<tr>
<td></td>
<td>Institute of Plasma Physics, Czech Republic</td>
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<td></td>
<td>University of Danang, Vietnam</td>
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</tbody>
</table>
Student life is not only end-of-term assignments and exams. It gives an opportunity to make incredible breakthroughs, implement ingenious ideas, make unique discoveries. The Associated Student Body (ASB), established at MEPhI, strives to help students fulfill their dreams. The best students work at the ASB.

Research and innovation activities, students’ self-government, creative teams, construction teams, volunteer movement, participation in sports, the opportunity to try out the role of a journalist, a TV or radio-presenter — the University creates all favorable conditions for strengthening creative potential of students.

And what would you choose?

- Student science: student scientific society; English-club; intellectual games club
- Student government: associated student body; dormitory council; international friendship club.
- Student creative activities: center for cultural projects; academic male choir of MEPhI; academic choir Carpe Diem; Vocal Studio Quanto di Stella; fine arts center.
- Students mediacenter.
- Volunteer movement «Good Works service of MEPhI».
- Volunteer center.
- Movement of students’ teams.
- Students Sports Club «Reactor».
- Cultural and Historic center «Our heritage».
Studying at MEPhI is a great opportunity to take up sports. There is a choice of about 30 various sports clubs from popular disciplines, such as athletics, aerobics and fitness, martial arts, rugby, hockey, football, volleyball to climbing, sailing and badminton.

The university has games and gymnastics halls, two sambo halls, a hall for table tennis, two outdoor tennis courts with artificial turf, a gym, as well as outdoor sport venues.

Can’t decide what to choose or do you want to try yourself as a sports manager? MEPhI Center for Physical Education and Sports and Students Sports Club «Reactor» will be eager to provide you with all necessary assistance.

Studying on a paid basis

LIST OF DOCUMENTS REQUIRED TO ENROLL AT MEPhI:

- Passport photocopy, including all the pages containing relevant information about the owner;
- Medical certificate issued by an official healthcare authority of the applicant’s country confirming that the applicant has no contra-indications for studying in Russia;
- Student’s visa valid for at least one month;
- Negative AIDS/HIV test certificate issued by an official healthcare authority of the applicant’s country;
- Originals and copies of education certificates along with the full academic records;

15 May  
Admission for Master’s Degree and Preparatory Faculty starts

15 June  
Admission for Bachelor’s Degree and Preparatory Faculty starts

25 August  
Admission deadline for Bachelor’s and Master’s Degrees and Preparatory Faculty

20 October  
Admission deadline for Bachelor’s and Master’s Degrees for applicants who require a visa (for programs in English)

25 October  
Deadline for entrance examinations for Bachelor’s and Master’s Degrees for applicants who require a visa (for programs in English)
Contacts
National Research Nuclear University MEPhI

inter@mephi.ru; onpetukhova@mephi.ru

eng.mephi.ru

www.facebook.com/UniversityMEPhI
Address of the University:
31, Kashirskoe shosse, Moscow

How to get to us:
Metro station «Kashirskaya»,
next stop by bus № 275, 280, 298, 738, 742, 907;
or trolleybus № 71
to the bus stop «MEPhI».
Next stop from the underground or it will take you 10-15 minutes on foot

Hot-line for applicants:
+7 800 775 15 51
(free call in Russia)
+7 495 785 55 25
(free call in Moscow)

Official site:
mephi.ru
Admission office:
admission.mephi.ru
Net-school:
school.mephi.ru

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