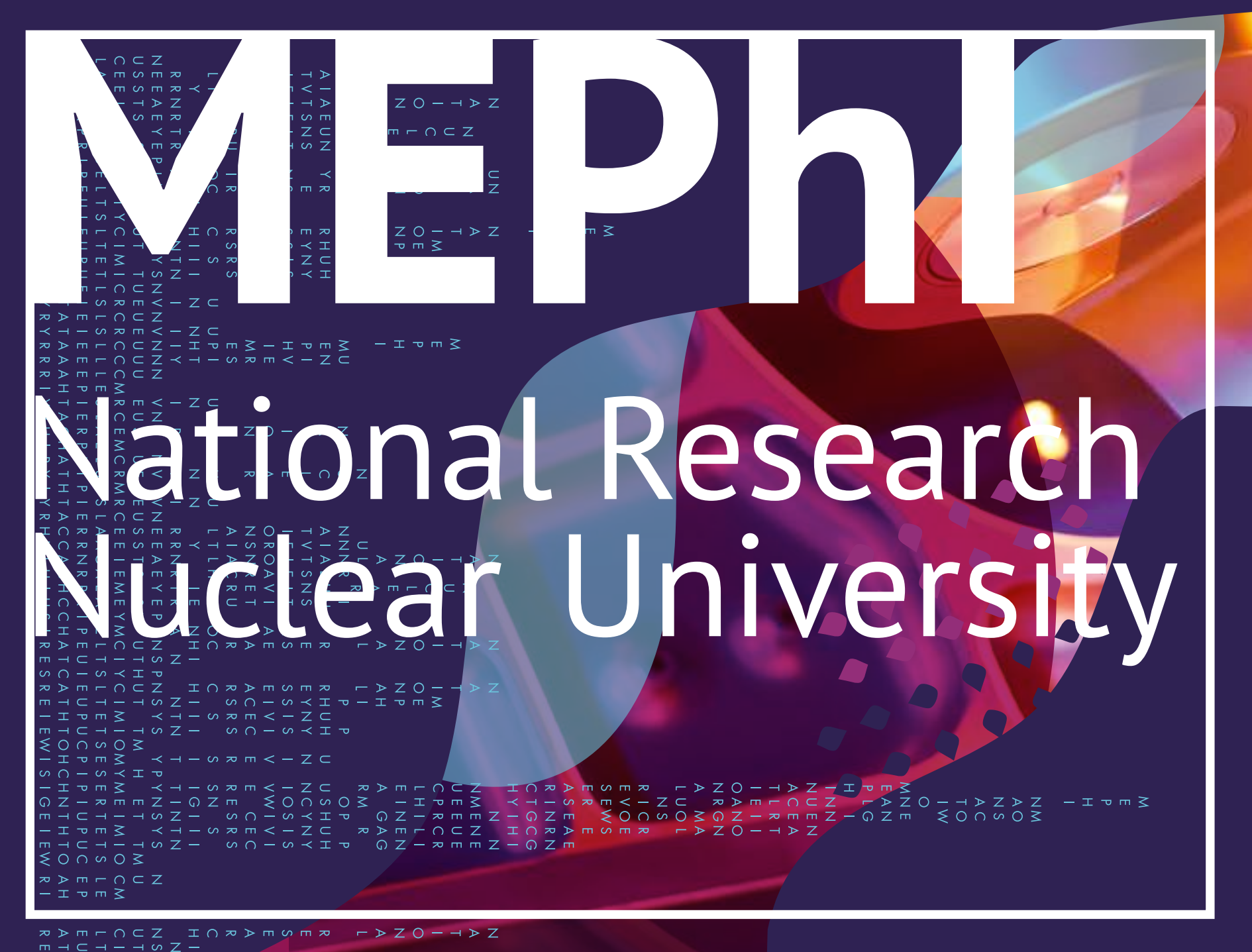

MEPhI
National Research
Nuclear University

«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

MEPhI seeks to train the next generation of industry, government, academic, and civil society leaders; to generate research and knowledge that can help solve major global challenges; and to work in close collaboration with partners globally to improve our society

MEPhI — IS ONE OF THE BEST NATIONAL UNIVERSITIES,

TRAINING **THE ELITE EXPERTS** FOR **THE NUCLEAR SPHERE, IT** AND OTHER **HIGH-TECH SECTORS**

VIDEO ABOUT MEPHI

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

TO SHAPE TRENDS IN SCIENCE OF TOMORROW, NEW RESEARCH AREAS, LINKED WITH AREAS OF MEPHI'S EXPERTISE, ARE IN FOCUS

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

MISSION

TO GENERATE, PROMOTE, USE AND PRESERVE **SCIENTIFIC KNOWLEDGE** AIMING TO ADDRESS **GLOBAL CHALLENGES OF THE XXI CENTURY**

INTERNATIONAL
MEPhI

MEPhI is a global university collaborating with a wide range of scientific and educational organizations, attracting international students from all over the world to the educational programs in the groundbreaking fields of science, technology and engineering

88 partner universities abroad

79 origin countries and territories for international students

26 educational programs in Engineering with international accreditation by FEANI

VINCC
Vienna International Nuclear Competence Centre

VINCC Vienna International Nuclear Competence Center

NEA
NUCLEAR ENERGY AGENCY

Nuclear Energy Agency NEA/OECD

WORLD NUCLEAR UNIVERSITY

World Nuclear University (WNU)

enen

International networks of nuclear education ENEN and INSEN

STAR-NET
Regional Network for Education and Training in Nuclear Technology

Regional Network for Education and Training in Nuclear Technology STARNET

«ATOM - CIS» Cooperation

IAEA

INMA
International Nuclear Management Academy

International Nuclear Management Academy (INMA) of the IAEA

MEPhI
National Research Nuclear University

TOP-5 ORIGIN COUNTRIES FOR INTERNATIONAL STUDENTS

TURKEY · KYRGYZSTAN · UZBEKISTAN · VIETNAM · KAZAKHSTAN

25% / INTERNATIONAL STUDENTS

>1500

INTERNATIONAL STUDENTS AT MEPHI / ADMISSION GEOGRAPHY

MEPhI
National Research Nuclear University

RWANDA
University of Rwanda

BOLIVIA
University of San Andres

EGYPT
Egyptian-Russian University
Ain Shams University

TURKEY
Istanbul Technical University
Hacettepe University

8% Preparatory course students

61% Undergraduate students

26% Graduate students / Master's /

5% Graduate students / Ph.D. /

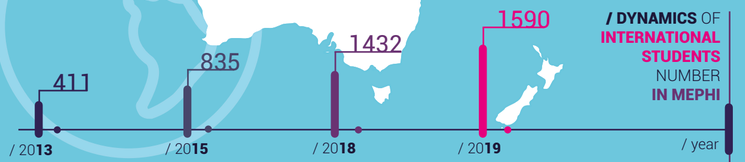
DIRECT EXPORT

Partners in **JOINT TRAINING PROGRAMS** for international students

KAZAKHSTAN
D. Serikbayev East Kazakhstan State Technical University

ARMENIA
National Polytechnic University of Armenia

/ DYNAMICS OF INTERNATIONAL STUDENTS NUMBER IN MEPHI



JOINT TRAINING PROGRAMS

/ UNDERGRADUATE PROGRAMS

UNIVERSITY OF SAN ANDRES, BOLIVIA
Nuclear Technologies

AIN SHAMS UNIVERSITY, EGYPT
Mechanical Power Engineering / Nuclear Energy Specialisation /

D. SERIKBAYEV EAST KAZAKHSTAN STATE TECHNICAL UNIVERSITY, KAZAKHSTAN
Innovative Methods of Uranium Products Synthesis

EGYPTIAN-RUSSIAN UNIVERSITY, EGYPT
Nuclear Power Station Engineering

UNIVERSITY OF RWANDA, RWANDA
Nuclear Science and Technology

NATIONAL POLYTECHNIC UNIVERSITY OF ARMENIA, ARMENIA
Nuclear Power Engineering
Heat Power Engineering

/ GRADUATE / MASTER's / PROGRAMS

HACETTEPE UNIVERSITY, TURKEY
Nuclear Engineering

ISTANBUL TECHNICAL UNIVERSITY, TURKEY
Energy Science and Technology

MEPhI STRUCTURE

HES
HIGHER ENGINEERING SCHOOL
Software engineering, system analysis and management, digital engineering

100 / STUDENTS

UZBEKISTAN
MEPHI BRANCH IN TASHKENT
Nuclear physics and engineering, nuclear power engineering, heat power engineering, electric power engineering

IIR
INSTITUTE OF INTERNATIONAL RELATIONS
International relations, international cooperation in in science & technology and industry, advanced linguistic training

6000 / STUDENTS

MOSCOW / CAMPUS

/ Programs for international students
1 / bachelor's
4 / master's
4 / specialist's

INPhE
INSTITUTE OF NUCLEAR PHYSICS AND ENGINEERING
Nuclear power and technology, development of new materials, physics of fundamental interactions and particle physics

NESPI
INSTITUTE FOR NANOENGINEERING IN ELECTRONICS, SPINTRONICS AND PHOTONICS
Specialized electronics and new physical principles-based electronics, functional nanoelectronics, quantum computer systems, integrated radio photonics, nanomaterials

IPhTIS
INSTITUTE OF PHYSICOTECHNICAL INTELLIGENT SYSTEMS
Development of cyberphysical systems

IFTES
INSTITUTE OF FINANCIAL TECHNOLOGY AND ECONOMIC SECURITY
Financial monitoring, information and economic security, economics, audit

MEPhI
National Research Nuclear University

LaPlas
INSTITUTE FOR LASER AND PLASMA TECHNOLOGIES
Laser, plasma, beam, synchrotron, x-ray technologies

10000 / STUDENTS

PhysBio
INSTITUTE OF ENGINEERING PHYSICS FOR BIOMEDICINE
Innovative technologies for diagnostics and therapy of cancer, nuclear medicine and nanobiotechnologies, methods of computer nanomedicine

FBICSM
FACULTY OF BUSINESS INFORMATICS AND COMPLEX SYSTEMS MANAGEMENT
Business informatics, industrial management, management in nuclear sphere

OBNINSK / CAMPUS

2500 / STUDENTS

LaPlas
INSTITUTE FOR LASER AND PLASMA TECHNOLOGIES
Composites, photonics materials, nanomaterials, photonics technologies

INPhE
INSTITUTE OF NUCLEAR PHYSICS AND ENGINEERING
Operation of NPP, non-energy application of nuclear technology

ICIS
INSTITUTE OF CYBER INTELLIGENCE SYSTEMS
Applied mathematics, IT, cyber security, cryptography, artificial intelligence, neurotechnologies

ICIS
INSTITUTE OF CYBER INTELLIGENCE SYSTEMS
Artificial intelligence & machine learning, fuzzy systems and soft computing, high-performance computing, "smart city" and "smart home" technologies

PhysBio
INSTITUTE OF ENGINEERING PHYSICS FOR BIOMEDICINE
General medicine, nuclear medicine, radiobiology, pharmacy

ISES
INSTITUTE OF SOCIAL AND ECONOMIC SCIENCES
Economics, management, state and municipal management

UNDERGRADUATE PROGRAMS

• MOSCOW • OBNINSK

/ English medium program /

/ Russian medium program /

BACHELOR'S PROGRAMS

SPECIALIST'S PROGRAMS

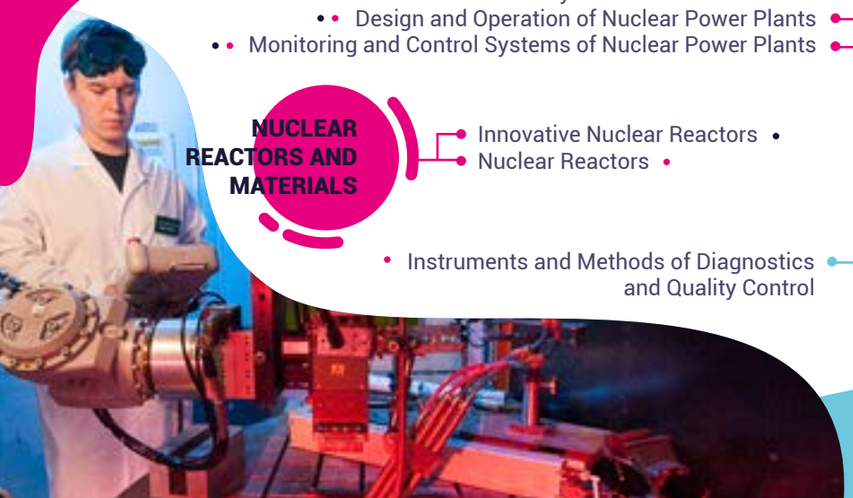
INPhE

NUCLEAR PHYSICS AND TECHNOLOGIES
- Radioecology and Safety of Human and Environment •
- Nuclear Physics and Cosmophysics •
- Experimental Research and Fundamental Interactions Modeling •
- Particle Physics and Cosmology •
- Radiation Technologies in Life Sciences •
- Physics of Fundamental Interactions •
- Physics of Extreme State of Matter •
- Physics and Thermal Physics of Nuclear Power Facilities •
- Innovative Nuclear Technologies •
- Radiation Safety •

NUCLEAR POWER ENGINEERING AND THERMAL PHYSICS
- Maintenance, Repair and Installation of NPP Equipment •
- Operation of Nuclear Power Plants •
- Nuclear Technologies •
- Research Nuclear Reactors: Physics and Technologies •
- Nuclear Technologies •

MATERIALS SCIENCE AND TECHNOLOGY
- Physics of Materials and Processes •

NUCLEAR POWER PLANTS: DESIGN, OPERATION AND ENGINEERING
- Radiation Safety of Nuclear Power Plants •
- Design and Operation of Nuclear Power Plants •
- Monitoring and Control Systems of Nuclear Power Plants •



NUCLEAR REACTORS AND MATERIALS
- Innovative Nuclear Reactors •
- Nuclear Reactors •

INSTRUMENT ENGINEERING
- Instruments and Methods of Diagnostics and Quality Control •

PhysBio

BIOTECHNICAL SYSTEMS AND TECHNOLOGY
- High-Tech Diagnostic Systems •
- Bionanotechnologies •
- Bionanotechnologies •

PHYSICS
- Medical Physics •
- Biophysics •
- Nuclear Physics Technologies in Medicine •

CHEMISTRY
- Analytical Chemistry •

CHEMISTRY, PHYSICS AND MECHANICS OF MATERIALS
- Nanomaterials for Biology and Medicine •

BIOLOGY
- Radiobiology •
- Biomedical Research •

GENERAL MEDICINE
- General Medicine • •
- General Medicine •

ICIS

SOFTWARE ENGINEERING
- Mathematical and Software Support for Computers and Networks •

INFORMATION SCIENCE AND COMPUTER TECHNOLOGY
- Protected Computational Systems and Software Development •
- Secure High Performance Computer Systems •
- Computational Machines, Complexes, Systems and Networks •

APPLIED MATHEMATICS AND COMPUTER SCIENCE
- Applied Computer Science •

INFORMATION SECURITY
- Security of Computer Systems •

INFORMATION SYSTEMS AND TECHNOLOGIES
- Information Technologies (IT) •

LaPlas

LASER ENGINEERING AND LASER TECHNOLOGY
- Laser Systems and Technologies
- Quantum Metrology

APPLIED MATHEMATICS AND PHYSICS
- Quantum Computer Systems and Data Processing •
- Theoretical Physics and Mathematical Modeling •
- Theoretical Physics and Mathematical Modeling •
- Theoretical and Experimental Physics of Solid State •
- Physics of High-Speed Processes •

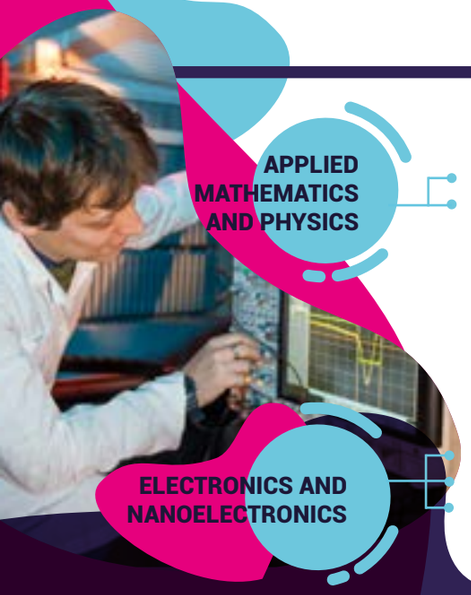
MATERIALS SCIENCE AND TECHNOLOGY
- Materials of Photonics •

HIGH-TECH PLASMA AND POWER PLANTS
- Controlled Fusion and Plasma Technologies •
- Laser Nuclear Fusion •
- Controlled Fusion and Plasma Technologies •

APPLIED MATHEMATICS AND COMPUTER SCIENCE
- Applied Mathematics and Computer Science •

TECHNICAL PHYSICS
- Technology and Materials of Photonics •

PHOTONICS AND OPTICAL INFORMATICS
- Photonics and Optical Informatics Technology •
- Physics of Meta-Materials and Low-Dimensional Systems •



NESPI

APPLIED MATHEMATICS AND PHYSICS
- Condensed Matter Physics •
- Kinetic Physics •

PHOTONICS AND OPTICAL INFORMATICS
- Photonics of Nanostructures •
- Photonics of Nanostructures •

ELECTRONICS AND NANOELECTRONICS
- Nanoelectronics, Spintronics and Photonics •
- Nanoelectronics, Spintronics and Photonics •
- Opto- and Nanoelectronics and Nanosystem Engineering •

IIR

INTERNATIONAL RELATIONS
- International Relations in the Field of Scientific Technologies, Trade and Industry •

IFTES

BUSINESS INFORMATICS
- Technological Business •
- Business Process Modeling •

INFORMATION SECURITY
- Information Systems of Financial Monitoring •

RESEARCH AND INFORMATION SECURITY SYSTEMS
- Information Security of Financial and Economic Structures •

ECONOMICS
- Accounting, Analysis and Audit •
- Financial Management •

ECONOMIC SECURITY
- Economic and Legal Support of Economic Security •
- Legal Economic Expertise •
- Financial Provision of Security Authorities of the Russian Federation •

FBICSM

MANAGEMENT
- Digital Marketing •
- International Business •
- Digital Logistics •
- Project Management in Digital Economy •

BUSINESS INFORMATICS
- Enterprise IT-Infrastructure •
- Business Informatics in Digital Economy •

SYSTEM ANALYSIS AND MANAGEMENT
- System Analysis and Life Cycle Management of Complex Systems •

ECONOMICS
- Accounting, Analysis and Audit •
- Enterprise Economy and Engineering •

GRADUATE / MASTER'S PROGRAMS

• MOSCOW • OBNINSK / English medium program / / Russian medium program /

INPhE

NUCLEAR PHYSICS AND TECHNOLOGIES

- Radioecology and Radiation Protection •
- State Regulation in Safety of Atomic Energy Use •
- Automation Systems for Physical Installations and Their Elements •
- Experimental Nuclear Physics, Cosmophysics and Physics of Fundamental Interactions •
- Experimental Methods of Nuclear and Particle Physics •
- Nuclear Physics and Cosmophysics •
- Particle Physics and Cosmology •
- New Generation Nuclear Power Technologies •
- Engineering Computer Modeling in Nuclear Industry •
- Nuclear Engineering •
- Innovative Nuclear Technologies •
- Radioecology and Radiation Safety •
- Physics and Technologies of Nuclear Reactors •
- Materials for Nuclear Application •
- High Energy Physics and Astrophysics •

NUCLEAR POWER ENGINEERING AND THERMAL PHYSICS

- Prospective Nuclear Reactors and Power Facilities
- Modern Technology of Light-Water Nuclear Reactors
- Operation of NPP and Power Facilities •
- Nuclear Power Plants •
- Nuclear Power Engineering •

MATERIALS SCIENCE AND TECHNOLOGY

- Materials Design and Engineering •
- Materials Design for Innovative Technologies •

INSTRUMENT ENGINEERING

- Non-Destructive Testing, Technical Diagnostics of Equipment and Computer Support of NPP Operator •

PhysBio

BIOTECHNICAL SYSTEMS AND TECHNOLOGY

- High-Tech Diagnostic Systems •
- Biomedical Nanotechnologies •
- Biomedical Nanotechnologies •

PHYSICS

- Medical Physics of Radiation Therapy and Radiology •
- Medical Physics of Nuclear Medicine •
- Advanced Semiconductor Lasers and Technologies •
- Biomedical Photonics •
- Physics in Nuclear Medicine •
- Medical Physics of Radiation Therapy and Radiology •
- Innovative Technologies of Nuclear Medicine •

BIOLOGY

- Experimental Radiobiology •
- Biomedical Research •

CHEMISTRY, PHYSICS AND MECHANICS OF MATERIALS

- Pharmaceutical and Radiopharmaceutical Materials Science •

CHEMICAL TECHNOLOGY

- Chemical Technology in Pharmacy •

NESPI

APPLIED MATHEMATICS AND PHYSICS

- Condensed Matter Physics •
- Kinetic Physics •

PHOTONICS AND OPTICAL INFORMATICS

- Photonics of Nanostructures
- Photonics of Nanostructures

ELECTRONICS AND NANOELECTRONICS

- Nanoelectronics, Spintronics and Photonics •
- Applied Micro- and Nanoelectronics •

IIR

INTERNATIONAL RELATIONS

- International Relations in the Field of Scientific Technologies, Trade and Industry
- International Relations in the Field of Scientific Technologies, Trade and Industry

ICIS

SOFTWARE ENGINEERING
- Architecture of Modern Intelligent Systems
- Advanced Information System Modeling Technologies
- Technologies for Highly Critical Cybernetic Systems Development
- Software Engineering

INFORMATION SYSTEMS AND TECHNOLOGIES
- Information Technologies

APPLIED MATHEMATICS AND COMPUTER SCIENCE
- Mathematical Physics and Mathematical Modeling

INFORMATION SECURITY
- Ensuring Business Continuity and Information Security

INFORMATION SCIENCE AND COMPUTER ENGINEERING
- Secure High Performance Computer Systems and Technologies
- Secure Automated Information Processing and Management Systems
- Computer Networks and Telecommunications
- Methods of Design Analysis and Synthesis
- Big Data and Machine Learning for Nuclear Engineering

IFTES

ECONOMICS
- Economic Security
- Accounting, Analysis and Audit
- Corporate Finance
- Audit and Financial Consulting
- Financial Analytics

INFORMATION SECURITY
- Information and Analytical Support for Financial Monitoring

BUSINESS INFORMATICS
- Business Process Modeling
- Project Management
- Digital Technologies of Economy Financial Sector

FBICSM

MANAGEMENT
- Logistics Management
- Management in Nuclear Industry
- Digital Management of High-Tech Business
- Strategic and Innovation Management

STATE AND MUNICIPAL MANAGEMENT
- Digital Technologies in State and Municipal Management
- State and Municipal Management in Smart Cities

BUSINESS INFORMATICS
- Business Informatics in High-Tech Industries
- Business Informatics in Digital Economy

LaPlas

APPLIED MATHEMATICS AND COMPUTER SCIENCE
- High-Performance Computing and Parallel Programming Technologies
- Mathematical and Computer Methods in Scientific Research

PHOTONICS AND OPTICAL INFORMATICS
- Photonics and Solid State Physics

APPLIED MATHEMATICS AND PHYSICS
- Problems of Theoretical Physics and Mathematical Modeling
- Quantum Computer Systems and Precision Measurements
- Charged Particle Accelerators for Mega Science Level Installations
- Supercomputer Technologies in Engineering and Physical Modeling
- Accelerators for Medicine
- Accelerators for Medicine

LASER ENGINEERING AND LASER TECHNOLOGY
- Laser Systems and Technologies

HIGH-TECH PLASMA AND POWER PLANTS
- Controlled Fusion and Plasma Technologies
- Controlled Fusion and Plasma Technologies
- High-Power Lasers and Laser Fusion

MATERIALS SCIENCE AND TECHNOLOGY
- Composites and Materials of Photonics

/ RESOURCE CENTERS

are the centers for practical training of the international students founded at MEPhI branches in collaboration with the university's partners in nuclear sphere - research institutions and industrial enterprises

PRACTICAL TRAINING IN MEPhI

MEPHI RESOURCE CENTERS FOR TRAINING OF THE INTERNATIONAL SPECIALISTS FOR NPPS AND CENTERS OF NUCLEAR SCIENCE AND TECHNOLOGY (CNST)

/ RESOURCE CENTER IN

VOLGODONSK

Volgodonsk Engineering Technical Institute - MEPhI Branch

/ Specialization

• design and major operation modes of NPP units

/ Main fields of practical training

• Exploring NPP unit design on full-scale samples
• Operation of NPP unit on a full-scale simulator
• WWER-1000 fuel overload simulation
• Technology of production and quality control of the items and fitting nodes for NPP unit
• Quality control of NPP unit equipment
• Safety culture

/ ROSTOV NPP
/ «VOLGODONSKATOMENERGOREMONT»
/ «ATOMMASH»
- JSC «AEM-TECHNOLOGY» BRANCH
/ VOLGODONSK INDUSTRIAL CLUSTER OF ATOMIC MECHANICAL ENGINEERING
/ AEM RESEARCH INSTITUTE

/ RESOURCE CENTER IN

NOVOVORONEZH

Novovoronezh Polytechnic College - MEPhI Branch

/ Specialization - operation of WWER-based NPP

/ Main fields of practical training

• Operation of WWER power unit
• Management and technology of NPP equipment maintenance

/ PRACTICE FACILITY OF NOVOVORONEZH NPP
- JSC «ROSENERGOATOM» BRANCH
/ PRACTICE CENTER OF «NOVOVORONEZHATOMENERGOREMONT»
/ JSC «ROSENERGOATOM» BRANCH
- EXPERIMENTAL ENGINEERING CENTER ON NPP SHUTDOWN

VIDEO
Novovoronezh resource center

VIDEO
Volgodonsk resource center

/ RESOURCE CENTER IN

MOSCOW and OBNINSK

MEPhI campus in Moscow and Obninsk Institute for Nuclear Power Engineering - MEPhI Branch

/ Specialization

• non-energy application of nuclear technologies, nuclear safety

/ Main fields of practical training

• Research on neutron-physic and termal-hydraulic features of nuclear units
• Radiation monitoring and control
• Irradiation of the products of animal and plant origin with the accelerated electron flow

/ IRT-2000 REACTOR
/ TRAINING LABORATORY « NPP SIMULATORS»
/ FUNCTIONAL SIMULATOR OF WWER REACTOR
/ RUSSIAN RESEARCH INSTITUTE OF RADIOLOGY AND AGROECOLOGY
/ KARPOV INSTITUTE OF PHYSICAL CHEMISTRY
/ SPC DOZA
/ MEDICAL RADIOLOGY RESEARCH CENTER NAMED AFTER A.F. TSYBA
- NATIONAL MEDICAL RADIOLOGY RESEARCH CENTER BRANCH
/ TECLEOR LLC

NEVOD

Scientific & Educational Centre NEVOD, is based on the unique experimental complex of physical systems and detectors that have **no analogues in the world, which are designed to study the natural flux of particles on the surface of the Earth:**

/ water Cherenkov detector / coordinate - tracking detector / moun hodoscopes

The Unique Scientific Facility «Experimental complex NEVOD» is **the only in the world that allows conducting basic** (particle physics and astrophysics) **and applied** (monitoring of the state of the atmosphere and magnetosphere of the Earth and of extra-terrestrial space) **research** based on the analysis of detected of natural fluxes of the particles at the Earth's surface over the entire range of zenith angles (from 0 to 180 degrees) and in **the record range of energy (1-10^{10} GeV)**

VIDEO
«Experimental complex NEVOD»

NANO CENTER

Academic center «Nanotechnologies» conducts **R&D activities in the sphere of new materials and technologies in non-silic electronics**

/ 6 RESEARCH AND ANALYTICAL LABORATORIES

1/ Molecular-beam epitaxy and nanolithography laboratory
2/ Semiconducting devices complex technology laboratory
3/ Design and microwave measurement laboratory
4/ Physics and technology of the wide-band semiconducting materials laboratory
5/ Probe microscopy and electronic spectroscopy of nanostructures and solid materials surface laboratory
6/ Laser ablation laboratory

LASER CENTER

/ MAJOR SPHERES OF RESEARCH

• High-power fiber lasers • Laser processing technologies
• Laser micro- and nanotechnologies • Laser technologies for medical applications

PHYSICS OF ULTRA-INTENSE LASER RADIATION

Development of experimental laser facility MEPhI ELF for experimental research of extreme state of matter physics

PORTABLE SPHERICAL TOKAMAK «MEPHIST»

• Research in the field of controlled nuclear fusion
• International coopeartion in the framework of ITER project

INTERNATIONAL LABORATORIES

/ PLASMA-SURFACE INTERACTIONS AND PLASMA TECHNOLOGIES
/ MODELING OF PHYSICAL PROCESSES IN EXTREME LIGHT FIELDS
BIONANOPHOTONICS / NANOBIOENGINEERING / NANOTHERANOSTICS
/ HYBRID PHOTON NANOMATERIALS
/ BIOMOLECULAR TECHNOLOGIES
/ FUNCTIONAL ELECTROPHYSICAL DIAGNOSTICS AND NON-DESTRUCTIVE TESTING
/ RADIATION METHODS OF DIAGNOSTICS AND RADIATION TECHNOLOGY USING ULTRA-INTENSE LASER RADIATION
/ QUANTUM METROLOGY / SILICON PHOTOMULTIPLIER
/ EXPERIMENTAL NUCLEAR PHYSICS
/ PHYSICAL PROCESS MODELING FOR SAFE OPERATION OF NUCLEAR POWER UNIT
/ ADVANCED TECHNOLOGY OF NEW MATERIALS

/ BIOTECHNOLOGY CENTER

Biotechnology center was created in 2017 for conducting innovative research in biology, chemistry and physics

/ Center's laboratories

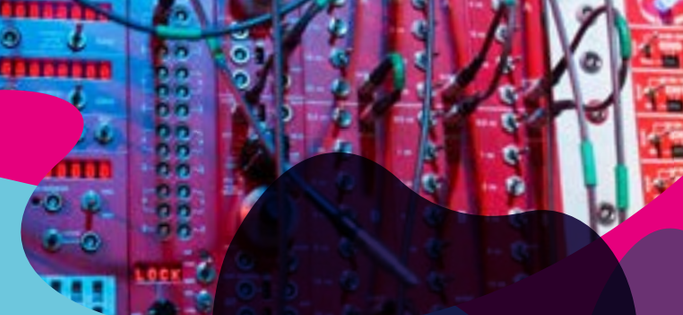
Eukaryote cell research laboratory • Confocal microscopy laboratory • Molecular biology laboratory • Real time quantitative PCR laboratory • Training PCR laboratory • Organic synthesis laboratory • Invertebrate biology laboratory

/ PHARMACEUTIC PRACTICAL TRAINING AND COMPETENCE CENTER

The Center's experts train the specialists in the conditions reflecting the current process of medicine manufacturing in accordance with GMP standards, as well as conduct scientific research in innovative medicine development.

/ Center structure

• Cleanrooms in accordance with GMP standards
• Industrial pharmaceutical technology laboratory
• Good manufacturing practice (GMP) laboratory
• Medicine quality control laboratory
• Chromatography, atomic & molecular spectroscopy laboratory
• Pharmaceutical chemistry laboratory
• Gravimetry laboratory



/ HIGH-PERFORMANCE COMPUTING CENTER (HPC CENTER)

HPC Center is designed for resource intensive and distributed computing for scientific, research and academic activities including studying modern HPC technologies.

FACILITIES
«University cluster» farm
96 cores • 384 GB RAM • net 1 Gbit/s • peak perfomance 1.2 TFlops
«Basov» farm
160 cores • 1.3 TB RAM • 14.6 TB usable disk space • net 10 Gbit/s • peak perfomance 3.5 TFlops
«Cherenkov» farm
288 cores • 2.3 TB RAM • 34 TB usable disk space • net Infiniband FDR 56 Gbit/s • peak perfomance 11 TFlops

/ VR-LABORATORY AND REVERSE ENGINEERING LABORATORY

The laboratories are designed for development of VR prototypes of complex engineering constructions including nuclear enegry facilities

VIDEO
Uranium-graphite assembly VR-twin

/ MEDICAL CENTER OF SIMULATION TRAINING AND ACCREDITATION

Simulation center is equiped with the trainers, manikins and other simulating devices modeling the patient treatment in accordance with specialization. The classes are equiped utmost close to **the real medical facility**

INDUSTRIAL PARTNERS

ROSATOM
STRATEGIC PARTNER

NUCLEAR PHYSICS AND POWER ENGINEERING

ROSATOM · ACI-ASE · ROSENERGOATOM · TVEL · AUTODESK · ROSKOSMOS · SIEMENS · NATIONAL RESEARCH CENTER "KURCHATOV INSTITUTE"

IT AND CYBER SECURITY

Abpc · SAP · SBERBANK · KASPERSKY · ROSBANK · Yandex · mail.ru · AEROFLOT Russian Airlines · NEOSECURE · ABBYY

NANOENGINEERING AND ELECTRONICS

RTI · RSS · mikrON · GENERAL SATELLITE · Rostec · RUSNANO

LASER AND PLASMA TECHNOLOGIES

RÜBIG · SuperOx · PILKINGTON · IPG · JSC SILONASB · VARTON · LASSARD

BIOMEDICINE

BERLIN-CHEMIE MENARINI · RUSATOM HEALTHCARE · AstraZeneca · STADA · novo nordisk · PCK

THE 48

World University Impact Ranking: Industry, Innovations and Infrastructure

TOP 100 QS WORLD UNIVERSITY RANKINGS

Graduate Employability Rankings 2019: Graduate Employment Rate and Employer Student Connections

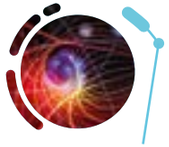
THE 22 / 2014 · 20 / 2016 · 11 / 2018

World University Ranking: Industry income

MEGASCIENCE PROJECTS

PHELIX / Petawatt High-Energy Laser for Heavy Ion Experiments, Germany

KEK / High Accelerator Research Organization, Japan



FAIR / Facility for Antiproton and Ion Research, Germany

BICA Society / Biologically Inspired Cognitive Architectures Society, USA

XFEL / European X-Ray Free-Electron Laser Facility, Germany

NICA / Nuclotron-based Ion Collider facility, Russia

ELI / Extreme Light Infrastructure, Czech Republic

CERN / European Organization for Nuclear Research, Switzerland

ICECUBE / South Pole Neutrino Observatory, Antarctic

ITER / International Thermonuclear Experimental Reactor, France

TAIGA / Tunka Advanced Instrument for Cosmic Ray Physics and Gamma Astronomy, Russia

RHIC / Relativistic Heavy Ions Collider, Brookhaven National Laboratory, USA

COLLABORATIONS

MOSCOW
/ CAMPUS

STUDENT LIFE

CULTURAL ACTIVITIES AT MEPHI

STUDENTS CAN PARTICIPATE IN **SELF-GOVERNMENT ACTIVITIES**

Associated Student counsil / labour union / dormitory council — MOSCOW, OBNINSK

MOSCOW

- **Information division** / Media center
- **Music division** / Academic male choir / Vocal studio Quanto di Stella / Academic choir Carpe Diem / Rock-laboratory
- **Drama & poetry division** / Eighth Artistic Union / Poetry club
- **Organization division** / Culture projects center
- **Art division** / Art center
- **Dance division** / Dance studio «ESTA-MEPhI» / Hip hop studio» EXPlosion

OBNINSK

- **Music division** / Vocal studio «StudMusicClub»
- **Drama & poetry division** / Theatre
- **Culture division** / Students' union
- **Information division** / Student newspaper «Atomokhod» / Press center
- **Dance division** / Dance team

VOLUNTARY WORK

MOSCOW, OBNINSK

Victory volunteers/Medical volunteers / Social volunteers / Students' safety team / Russian students' teams / Students' scientific society /Students' scientific club «Terapii» / Students' scientific surgery community

SCIENTIFIC ACTIVITY

Engineering center / Students' scientific society / Studets' parliament club / Connoisseurs club / Science diplomacy club — MOSCOW

Innovation-technology center — OBNINSK

SPORTS

MOSCOW

Students' sport club «Reactor»

Hockey / football / mini football / basketball / volleyball / baseball

OBNINSK

Basketball / volleyball / athletics / ski race / mini football / ping pong / chess / hiking, alpinism / badminton / arm-wrestling, kettlebell lifting /tennis / wrestling / fitness aerobics /climbing

INTERNATIONAL STUDENTS' CONSTRUCTION BRIGADES

MOSCOW, OBNINSK

MEPhI students have an opportunity to participate in NPP construction abroad

INTERNATIONAL STUDENT FESTIVAL
«All flags will be with us!»

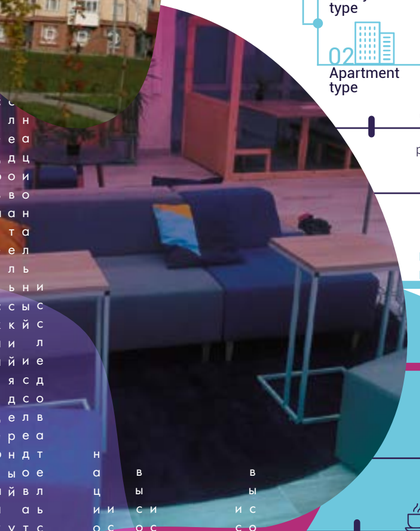
Chain coworking project **«Boiling Point - Obninsk»** established for holding educational events, discussions, workshops, foresight-sessions, business games, experiments, conferences, strategic and project sessions to contribute to implementation of the National technological initiative and development of the economy of the future

OBNINSK
/ CAMPUS

INTERNATIONAL CAMPUSES

MOSCOW DORMITORY COMPLEX

01 Lobby type	3-4 persons in a room	600 rubles/month	furniture		kitchen and bathroom on each floor
02 Apartment type	2-3 persons in a room	600 rubles/month	furniture		private kitchen and bathroom
	gym ping pong		internet		security video monitoring
Medical service	Medical insurance for international students 8,500 rubles/year				



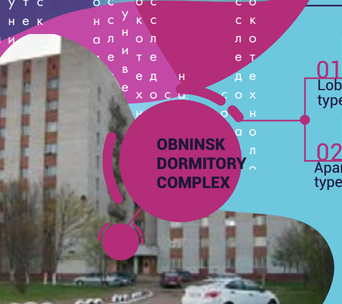
>1100 MOSCOW

> 300 OBNINSK

INTERNATIONAL STUDENTS LIVING ON CAMPUS

Medical service	Medical insurance for internationational students 8,500 rubles/year				
	cafe		internet		security video monitoring
01 Lobby type	3-4 persons in a room	450 rubles/month	furniture		kitchen and bathroom on each floor
02 Apartment type	2-3 persons in a room	500 rubles/month	furniture		kitchen and bathroom in every apartment (2 rooms)

OBNINSK DORMITORY COMPLEX



- International summer school for students, postgraduates and young specialists **«BASIC PRINCIPLES OF NPP MANAGEMENT»**
- International summer school **«RADIATION CONTROL AND RADIATION MONITORING»**
- International summer school **«PHYSICS AND TECHNOLOGIES IN LIFE SCIENCES»**
- International summer school **«NON-DESTRUCTIVE TESTING AND TECHNICAL DIAGNOSTICS IN NUCLEAR INDUSTRY»**
- International summer school in **ENGINEERING COMPUTER MODELING**

SUMMER SCHOOLS

SCHOOL PROGRAMS INCLUDE

- Practice
- Lectures
- Technical tours
- Excursions
- Cultural events

SCHOOL PARTICIPANTS

- Young specialists
- Young scientists
- Students
- Postgraduates

GLOBAL NUCLEAR MEPhI FEST

INTERNATIONAL YOUTH FESTIVAL FOR STUDENTS WITH MAJOR IN NUCLEAR TECHNOLOGIES. The festival program includes **educational events** with top experts in nuclear technologies, **cultural program, intellectual, sports and art competitions, meetings with representatives of State Corporation «ROSATOM»**

VISIT MEPHI IN SUMMER

ADMISSION PROCESS

CHOOSE YOUR PROGRAM

LEARN ABOUT FINANCING & SCHOLARSHIPS FOR ALL DEGREE PROGRAMS

PREPARE AND SUBMIT YOUR APPLICATION SET

PASS ENTRANCE EXAMINATION

STUDY AT MEPHI
Classes start

PREPARATORY COURSE

- Scholarship applicants — 1/ The Russian Federation Government Scholarship /Quota/. Apply at Future-in-russia.com
- Self-financed applicants — 2/ Paid education. Apply at MEPhI

Information about the application period in your country is provided by the **Scholarship operator**

- **June 1 - Oct. 10**
- **June 1 - Dec. 25**

1/ Selection is conducted by the **Scholarship operator** in your country

- **SEP. 1, 2020** / 1-year course /
- **FEB. 1, 2021** / 1,5-year course /

UNDERGRADUATE PROGRAMS

- Scholarship applicants — 1/ The Russian Federation Government Scholarship /Quota/. Apply at Future-in-russia.com
- Self-financed applicants — 2/ Paid education. Apply at MEPhI

Information about the application period in your country is provided by the **Scholarship operator**

- **June 15 - Aug. 21** / Programs in Russian
- **June 15 - Oct.18** / Programs in English

1/ Selection is conducted by the **Scholarship operator** in your country

2/ Entrance exams for undergraduate programs /conducted by MEPhI /
- **Till Aug. 27** / Programs in Russian
- **Till October 23** / Programs in English

SEP. 1, 2020

GRADUATE / MASTER'S / PROGRAMS

- Scholarship applicants — 1/ The Russian Federation Government Scholarship /Quota/. Apply at Future-in-russia.com
- Scholarship applicants — 2/ **Open Doors Olympiad winner** Apply in accordance with the Olympiad rules
- Self-financed applicants — 2/ Paid education. Apply at MEPhI

Information about the application period in your country is provided by the **Scholarship operator**

Announced by the **Olympiad Organizing Committee**

- **May 18 - Aug. 21** / Programs in Russian
- **May 18 - Oct. 18** / Programs in English

1/ Selection is conducted by the **Scholarship operator** in your country

2/ **No entrance** exams

2/ Entrance exams for graduate programs /conducted by MEPhI /
- **Till Aug. 27** / Programs in Russian
- **Till October 23** / Programs in English

SEP. 1, 2020

PREPARATORY COURSE FOR INTERNATIONAL STUDENTS

Preparatory Department for international students offers training programs on Russian language and foundation courses for foreign nationals who plan to pursue higher education at MEPhI and other universities in Russia.

Depending on the future major, students can choose a preparatory course

- **ENGINEERING** — / Russian language / Mathematics / Physics / Computer Science
- **BIOMEDICINE** — / Russian language / Chemistry / Biology / Physics
- **ECONOMICS** — / Russian language / Social Science / History / Mathematics
- **HUMANITIES** — / Russian language / Social Science / History / Literature

STUDENTS ABOUT MEPHI

NASIBA NURZHANOVA
Institute of Nuclear Physics and Engineering

It was my strong desire to get a technical profession that would be in demand in my homeland, Uzbekistan. And as MEPhI has the leaging position in training specialists for nuclear industry, I didn't spend much time for choosing the university. Studying at MEPhI is not easy but it is worth it. The university is famous for its high-professional specialists and the faculty. I am proud of learning from the scientists of world reputation. I am sure that MEPhI diploma is a lucky ticket to the future.

KHANAMAT EPHENDIEV
Institute of Engineering Physics for biomedicine

It is well-known that in the nearest 5 years we should expect the groundbreaking changes in approach to diagnostics and therapy of diseases. I believe that MEPhI PhysBio has all necessary resources for training specialists demanded all over the world. The laboratories conducting research on the junction of physics, biology and chemistry make PhysBio the unique institute in the field. We develop new innovative methods of cancer therapy.

SCHAKHNAZAR AMONGELDIEV
Institute of Nuclear Physics and Engineering

I have chosen MEPhI because it is a global leader in nuclear sphere. Classes are very productive and interesting. All professors are and enthusiastic. I would like to work in State Atomic Energy Corporation «Uzatom» and develop my country after my graduation. MEPhI diploma is ranked high in the world and undoubtedly gives additional chances for a successful career.

RANKINGS MEPhI

2018 — 2019

QS WORLD UNIVERSITY RANKINGS

146
/ Natural Science /

51-100
/ Physics & Astronomy /

301-350
/ Materials Science /
/ Electrical & Electronic Engineering /

ROUND UNIVERSITY RANKINGS

52
/ Natural Science /

157

TIMES HIGHER EDUCATION WORLD UNIVERSITY RANKINGS

78
/ Physical Sciences /

201-250
/ Computer Science /
/ Engineering and Technology /

ACADEMIC RANKING OF WORLD UNIVERSITIES

101-150
/ Physics /

U.S. NEWS & WORLD REPORT UNIVERSITY RANKING

76
/ Physics /

THE THREE UNIVERSITY MISSIONS MOSCOW INTERNATIONAL UNIVERSITY RANKING

147

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