Higher Education Discovery

International Magazine

ARTEM OGANOV TALKS ABOUT RESEARCH CAREER DEVELOPMENT IN RUSSIA

HOW TO "BREAK UP" CHEMISTRY?

ADMISSION AND STUDYING IN THE CONTEXT OF THE PANDEMIC



HED MAP OF RUSSIAN UNIVERSITIES

MOSCOW FOR STUDENTS

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FEATURED SECTIONS

Prediction is one of the functions of science. Science must generalize, explain, and predict. That's why any welldeveloped scientific discipline has a predictive framework.





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Scientists must tell the truth—they shouldn't try to fudge the result to fit their theory. They should fairly admit that there's something wrong with the theory if it doesn't work.



Chemistry has many promising subject areas, and it's important that you find a good research team with an active research supervisor. Then you'll have challenging tasks, internships abroad, good publications, and Nobel Prizes.



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- Announcements of new contests from Russian universities
- Students and graduates' stories
- Admission requirements

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Moscow for students: concept venues, leisure areas, benefits for students, weather conditions. 92

Universities have adapted to the forced restrictions and are now able to offer remote communication options to applicants and students.







According to new regulations, international students may get a job in Russia without a special permit or patent, legally work during their free time.

Dear friends!

We have done our best to make our magazine interesting and useful, but we can still improve it together! If you want to share your experience and plans for the future or give your feedback, please contact us at kleshnina.es@hedclub.com.



















Pirogov RNRMU





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LET'S HAVE SOME CHEMISTRY

Those who are keen on science, especially chemistry, know the name of Artem Oganov well. And those who just start showing interest in this area will be curious to find out about the worldrenowned Russian chemist. Famous crystallographer, educator, Professor of the Russian Academy of Sciences, a member of the most prestigious Academia Europaea is known mostly for his unique methods for computational materials discovery and crystal structure predictions, studies of matter at high pressures. Thousands of researchers all over the world use the USPEX computer program developed under his supervision. Dozens of his predictions have been confirmed experimentally and have significantly affected the fundamental knowledge in materials science, physics, chemistry, and Earth sciences.

Let's talk with the famous scientist about what a successful career can start from, how science is made, the qualities scientists must have to succeed, and many other things. We hope that such interesting and honest opinions about different aspects of science will encourage somebody to devote their lives to research in Russia.

THE BIG DREAM

- I had been dreaming of becoming a scientist since I was four. I was captivated by a popular science book from our home library. My brother and I learned to read early. We liked leafing through books, reading and examining them. We had all kinds of books. Our mom made us familiar with a variety of things, including poetry, painting, history, and sciences, to find out what we were inclined to and what we gravitated to and help us make our dreams come true later. Not only the pictures in the chemistry book but also the beautifully written text aroused my interest. It described chemical elements, how they occur naturally, how they behave, what properties they have.

That's how I got absorbed in chemistry when I was a child, and I could see myself only as a scientist all my life. It didn't take long before I could read *Himiya i zhizn'* (Chemistry and Life) journal and other books. When I was 6-8, I attended lectures on chemistry at the Polytechnic Museum and Mendeleev Institute.

I believe this to be the best and most universal way to acquaint children with the world of knowledge, inspire them so that they are keen on reading books, attending lectures, and living.



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Prediction is one of the functions of science.
Science must generalize, explain, and predict.
That's why any well-developed scientific discipline has a predictive framework.

In crystallography, this predictive framework was underdeveloped not too long ago. Crystal structure prediction was thought impossible, and scientists considered this problem unsolvable.

However, if we know the structure, we've long had an opportunity to calculate an array of properties using complex quantum mechanical methods. But, again, this can only be done if we know the structure. And the prediction of the structure itself seemed impossible in principle.

In Russia, computational sciences suffered severely from the lack of supercomputers until recently. The reason is clear—the Jackson-Vanik amendment in US legislation prohibited the sale of supercomputers to the USSR and Russia for many years. Russian scientists severely lacked supercomputer resources in the late Soviet Union and early post-Soviet Russia. Later this amendment was repealed, and many problems disappeared. Over the last 10-15 years, Russia has had a constellation of scientists working in this area at an international level.

2Na+2H20=2NaOH+H2

But let me revert to the point I started from. Property prediction based on the predetermined structure is well-proven for most properties, but structure prediction was considered impossible. But I proved that structure could be predicted when I developed (2005) and published (2006), in collaboration with my student, the method to solve this problem. Now we can predict structure based on the predetermined composition. You preset a chemical formula, and my program will predict the structure that will help you calculate a variety of properties. You can describe a substance even if you don't hold it in your hand.

Later, I refined this method. And you don't need to preset a chemical formula anymore—just say what elements you are interested in and what conditions (pressure, temperature) there are. And the program will find all stable compounds of these elements under these conditions. Tentatively speaking, my crystal structure prediction methods have brought theoretical crystallography and materials design to a really predictive, breakthrough level.

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WHAT GOOD WILL IT DO?

– Even under normal conditions, we know by no means all compounds—scientists always discover new ones. It's exceedingly expensive to handle all possible combinations of all elements and find all stable compounds experimentally. And it's hardly possible to handle all these compounds, find the best materials for various purposes—for example, the hardest material, the strongest or most magnetic material, the best material for laser technologies, etc.

Computers can help us predict the compound with the best properties (among all known and still unknown compounds) for some particular purposes. For example, which material is the hardest one among all possible materials discovered and not yet discovered? We can ask computers about it, and they will tell you that you'll find nothing harder than diamond, at least among crystalline substances. Besides diamond, it will predict plenty of other compounds that will also be very hard, including compounds that have not yet been discovered. Computers predict them, and then people go to a laboratory and synthesize them.

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So, the first thing we need it for is the creation of new materials with record-breaking properties. Because it's too expensive to handle all this experimentally, do laborintensive synthesis works, and then measure properties.

Secondly, we can study the substance in conditions where experiments are almost beyond belief. For example, experiments are difficult to carry out at high pressures. And high pressures hold plenty of new, understudied chemical phenomena that must be understood because the lion's share of matter on our planet and other planets is discovered at high pressures. We'll never understand what's happening on our planet, how it evolves, what structure it has, what processes occur in it until we understand the properties and behavior of properties at high pressures and temperatures typical of the Earth.

Besides, there are some other difficult situations where experiments are difficult to carry out today. The theory could explain, clarify, predict a lot. For example, the structure and properties of nanoparticles, crystal surfaces and grain boundaries. It's extremely difficult to experiment here. Not all experiments give exhaustive information, and our methods allow us to provide a sufficiently complete description of such states of matter.





IN SEARCH OF TALENTS

My laboratory employs around 20 people. That's quite a few. I saw research teams consisting of 80 members, but that's too much and hardly provides benefit. I select students and employees individually and I always know exactly what's happening in the laboratory.

I am always looking for gifted people because gifted people are the most important thing in any research team. I am looking for people born to do research. I need people who are into research and have a good academic background. I employ only those who are better than me in something.



BALANCING ROUTINE WITH CREATIVITY

 Any activity, including research, has its routine.
You shouldn't get stuck in it and minimize it as efficiently as possible and maximize creativity. But it's impossible to get rid of it completely.

Firstly, research activity itself has much routine: when you dig into figures, when you debug a program, fixing bugs, when you dig into experimental data, do experiments repeatedly, checking and double-checking the results. All this, of course, is routine. But your creative train of thought is absolutely senseless without it.

You can't just come up with an idea, put it in the air without shaping it up and testing it. You should always check and double-check your ideas and results. That's how science is made. We need all this routine.



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But there is some other routine not directly related to science—paperwork, red tape. We should minimize such things. The work related to checking your results, additional experiments and calculations must not be minimized. But paperwork can and should be kept to a minimum.

Let's see how my laboratory works. When I need to apply for a grant and then write a grant report (it's necessary since grant financing of a research laboratory is an integral element all over the world), I only write a scientific part. Financial and administrative papers are filled out by specially employed people. I don't waste my time on that. But I partly delegate a scientific part quite often as well. There are times when I write the entire research project alone, but sometimes I ask each of my employees to write a couple of pages. Then I compile all the texts into a well-composed overall text, adding my texts.

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HOMECOMING

 People somehow think that it's fine to go one way, to the West, and that it's strange to go to Russia. But it's fine to go to Russia, too. Scientists go to the place where they can unleash their full potential and provide as much benefit as possible.

At a certain point, I realized that I had achieved everything I could in the USA. I became a tenured Full Professor, I had a large laboratory, the largest one at the faculty and one of the largest at the university. And, to be honest, I felt a little bored when I realized that my further development would be rather slow. I had to do most of the paperwork myself, though I delegated everything I could to the administrators and secretaries. But the amount of paperwork was huge. One day I calculated that I had filed 20 applications for grants in one year. Then I felt that I was turning into a grant-writing machine. That's fine for an American professor, but that does immense harm to US science.

And I realized that I didn't want to be a grantwriting machine. Having obtained a lot of milliondollar grants, I proved to myself and everybody that I was successful within the system. At a certain point, I realized that almost all my applications were winning ones. That didn't satisfy me anymore. And further stay in this system was a little boring. That's on the one hand.

On the other hand, America is not my country. Russia is my country. I said to myself long ago that, all other things being equal, if I were able to do research in Russia at the same level and ensure the USA-like living standards for my family and myself, I would come back for sure. And, when such an opportunity came up—the mega grant and professorship at Skoltech—I was happy and took advantage of these opportunities. I was happy in the West, but one day I realized that my home is in Russia. I'll have no other home. Imagine that you live in someone else's house, and this house is beautiful, clean, and well-kept. But there is your own house nearby, across the road. The plaster is flaking off, the roof is broken through, the windows are broken—but you don't live in it and don't keep it properly. You keep other people's house, and it sparkles, and your house is deteriorating, but why? It's understandable when you are not allowed to do anything in your house. Yes, such things happen, and not only in Russia. There are Americans who leave the USA because there they don't have any opportunity to do something for their country. And they live somewhere in another country all their life. That does happen sometimes. People can fulfill themselves incompletely in any country. But if you are offered an opportunity to make your home cozy, you must take this opportunity. You are a full-fledged member of society only at home, and you don't culturally diverge from society in any way. All these reasons made me return. Now it's possible to pursue science in Russia to the same high standard as in the West. That's enough for me. And what is more, it's my home.

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PROMISING AREAS OF SCIENCE

- I believe **life sciences**, **artificial intelligence**, **and materials science** to be the fastest evolving areas of science today. I was lucky to work at the intersection of two of these areas—artificial intelligence and materials science.

Russia has great prospects for the development of these areas. We have many talented young people, many first-rate scientists of all ages, a good framework for the development of science. The situation can't be called an ideal one, there are many problems, but I can see some dynamic improvements. There are some research centers and areas in Russia where cutting-edge science is made. Russia is an absolute leader in this science. The number of such research centers and areas is gradually increasing.

SHORT BIO

Having graduated from Moscow State University's Faculty of Geology with honors with a degree in Crystallography and Crystal Chemistry, Artem Oganov, at the age of 23, won a scholarship to study in the West. He obtained a PhD degree from **University College London** and then habilitation (Doctor of Physical and Mathematical Sciences in Russia) from **ETH Zurich** . He moved to the **State University of New York at Stony Brook** as Associate Professor in 2008 and was promoted to Full Professor in 2010.

In 2013, the scientist won two mega grants — in Russia and China 2014, he moved to Russia and became a Full Professor at Skolkovo Institute of Science and Technology. Since 2020, he has also been a Full Professor at NUST MISIS, and since 2021 — Head of the Laboratory of Crystal Chemistry of Vernadsky Institute of Geochemistry and Analytical Chemistry of the Russian Academy of Sciences.

Among the numerous awards of Artem Oganov are the Chinese Government's Friendship Award. He was elected a Professor of the Russian Academy of Sciences in 2015. He has been a member of Academia Europaea since 2017 and was elected a fellow at the Royal Society of Chemistry and the American Physical Society in 2020. Sixteen Candidates and one Doctor of Sciences earned their degrees under his supervision.





▲ Oganov became the youngest laureate of the Soglasie international award granted by the Union of Armenians of Russia supported by the Russian Government



TIPS FOR PHD STUDENTS

It's highly important that you choose your teachers properly while pursuing your PhD degree. Your research supervisor will determine the best part of your successes or failures. You should know which area of science you want to devote your life to, and the more exactly you know that, the better. And choose the best scientist in this area as your research supervisor.



Don't choose a study destination because of the city (or country) you would like to live in. That's stupid. Your PhD degree, like your life, is given once.

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Don't miss the forest for the trees, try to achieve the maximum result. Develop your talents, achieve outstanding results, and try to become a first-rate specialist while pursuing your PhD degree. The lion's share of your success will depend on that. **PhD degree** is a milestone of the scientist's self-development. I think that a PhD degree in Russia shouldn't be one of the educational stages. To my mind, PhD students must not attend lectures and take exams. They must not be distracted from science. They must focus on their research because it must take three years (I believe this period to be an optimal one for earning a PhD degree) for yesterday's student to turn into tomorrow's leader of global science.



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MUST-READ BOOKS AND MUST-WATCH VIDEOS

– In Russia, we have a lot of good video content, popular science books for all ages. There is ThoiSoi, a Russian-language YouTube blog with high-quality content. It's a spectacular chemistry show with firstrate experiments and relevant comments. There is a wonderful video on chemistry in English by outstanding British professor Martyn Poliakoff.

When it comes to literature, I'd advise you to go beyond reading only chemistry books and study allied disciplines such as physics and biology as well. For example, there is a book under the title *The Origins of Everything: From the Big Bang to the advent of human civilization* by David Bercovici. Its subject matter has not much to do with chemistry, but it is in contact with chemistry at almost every step. I'd recommend this book to any person who wants to make progress.

Russian and foreign specialists issue plenty of exceptional books in Russia now. Among them are Tamara Eidelman, a history teacher, radio host, blogger, Yuri Nechiporenko, an amazing person, biophysicist, writer, art critic, cultural studies scholar, and many others.

Be guided by your interests and look for good mental food. What you will read is important here. If you read rubbish, your brain will get used to it and won't be able to perceive high-quality information. The human brain gets used to the food you give to it. So choose really useful science and popular science books. We have more than enough such books now.





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WHAT MAKES A TRUE SCIENTIST?

– All people are different, and scientists are different as well. But the profession imposes some basic requirements.

SCIENTISTS MUST BE HONEST



And it's not about honesty in everyday life or politics. Unfortunately, the world is not as simple as we would like it to be sometimes. There are great scientists, who are blatantly dishonest in everyday life, but they are still great scientists. But such people are not dishonest in their profession—they don't wangle and fudge. Dishonesty is condemnation for a scientist. I've met people who try to please the person they are talking to in the best possible way while answering their questions. Such people have no business being scientists. It's a disgualification. Scientists must tell the truth—they shouldn't try to fudge the result to fit their theory. They should fairly admit that there's something wrong with the theory if it doesn't work and is not consistent with the experiment.

SCIENTISTS MUST BE CURIOUS



They must feel great respect for a question mark. Scientists are not afraid to admit that they don't know something.

SCIENTISTS MUST BE ACTIVE



People often sit and wait for inspiration. Such people will wait for it all their life, but that's a fat chance. Because inspiration only comes to hard workers.

People whose brain is loaded with scientific problems can generate many other ideas concurrently. While thinking over one task, people are doing some others, often more important, at the same time. People who just sit and wait for the Muse are lazy. They will hardly make any scientific discoveries.

DEBUNKING MYTHS

Unfortunately, the myths disseminated by some popular editions do immense harm to beginning scientists. For example, they write that Einstein used to get Cs and Ds, but then was suddenly inspired and made a remarkable discovery. It's a lie. I lived in Switzerland, visited Einstein House, and saw his school diaries. He got As in almost all subjects, including mathematics and physics. He only had Cs in two or three foreign languages. He was a person of keen intellect and excelled in his studies, but he had some problems with foreign languages (which is proved by his speeches in English).

Here's another myth. Einstein was believed to look at the ceiling in some shed all day long and imagined that he was flying on the photon, which helped him discover the theory of relativity. But that's also not true—he worked hard for a long time discussing this theory with the most intelligent people who were young and with no claim to fame. To discover the theory of general relativity, he hit the books and studied the things that were new to him, a hugely complex area of mathematics. He studied it so well that he managed to make a personal contribution to it!

Einstein wrote profound and diverse works that are of paramount importance to science. For example, he published five papers in 1905, all of which turned physics upside down. And that was a feat for a young scientist. He has done an astounding amount of work that required great effort. Have you ever tried to write five papers alone in a year? That's immense work. Einstein was a busy bee.

Thus, scientists should be active, hardworking, constantly improve themselves, do various tasks. By loading your brain, you train it. Only then will it be able to spring surprises on you. And only then will inspiration come to you. Inspiration doesn't come to lazybones









WHY DO CHEMISTS NEED Descriptive geometry and How to "break up" chemistry?

Chemistry is a self-consistent and beautiful, and most importantly, "eternal" science. Marina Trusova, Doctor of Chemical Sciences, Director of the Research School of Chemistry & Applied Biomedical Sciences of Tomsk Polytechnic University, is quite certain about it. Chemistry is eternal not only because it describes basic phenomena occurring on our planet. It is eternal because chemical education will be in demand in five years and also in the distant future. Marina Trusova shared her view on what specialists are in demand at chemical enterprises and how to "break up" chemistry.



Flon Musk's rockets, genome editing, black holes, flexible smartphones are on everyone's lips now. Against the backdrop of all these ambitious tasks, chemistry seems too traditional. How can it captivate school or university students now?

- Mathematics, physics, and chemistry are three pillars. Humankind wouldn't have made a significant breakthrough without them. At least, space rockets and genome editing technology wouldn't have been invented for sure. And nothing seems to have changed in this sense as chemistry remains a basic subject. Let's take the hydrogen economy, which is much talked about today. You can't get hydrogen, and you mustn't store and use it if you don't know chemistry. That's an example of a challenging research task and work. Chemists are in demand at pharmaceutical companies, in the oil and gas industry, at chemical enterprises, in the broadest range of industries because chemistry is willing to "cooperate" with other sciences. Now plenty of subjects and professions are at the intersection of chemistry with other sciences — physics, materials science, medicine. Chemists were in demand 50 years ago, and they will be in 100 years, and, I hope, in 1,000 years. That's an advantage of chemistry.

What is more, chemistry is not that easy to study. Is any secret or not very secret key to understanding chemistry?

- Chemistry is very beautiful in its self-consistency. It is based on fundamental principles. For example, there are combination, decomposition, replacement, exchange reactions. A smart teacher should once help you understand how they proceed using the simplest molecules as an example. And then, no matter how gigantic an organic molecule formula is, you will know what to do with it. Spatial thinking is of great help here. That's why descriptive geometry is very useful to chemists.

How can descriptive geometry help?

- Molecules in your copybook are flat, but they are three-dimensional in the real world. This often confuses university and school students. For example, we don't understand why a catalyst aligns with a molecule on the left side and not on the right side. Spatial thinking developed by descriptive geometry can be of great help if you want to understand chemistry.

Which chemical engineering occupations are the most promising and sought-after by employers?

- Russia has many enterprises in various sectors that need chemists. Each industry has high-level enterprises that offer good labor conditions and challenging tasks. You'd better start out from what you like. Now good universities offer you an opportunity to choose your major based on your interests while studying, instead of choosing it at once on the day of admission.

For example, TPU applicants enter the Chemical Engineering program but then study basic subjects for the first two years, obtain excellent background, delve into more specific areas of chemistry, get acquainted with research teams. Their choice of major is more conscious, which is now highly valued by employers.

What graduates do chemical enterprises wait for now?

- According to our partners, major industrial enterprises, the first important quality is understanding the specific features of your major. The second one is basic IT skills. I don't mean that chemists at enterprises must program. They must rather understand the principles of digitalization and automation of processes. And the third one is soft skills. Enterprises need employees ready to work in a team, effectively communicate with their colleagues for solving tasks.

Do many graduates pursue a research career? What prospects do chemists have in their research careers now?

- Being a scientist is much more than a profession. That's a distinct type of mind. That's why few graduates in percentage terms pursue research careers. But now it's definitely a good time for research. There are plenty of state grant programs supporting students, including PhD students, and they are selective and effective. Chemistry has many promising subject areas, and it's important that you find a good research team with an active research supervisor. Then you'll have challenging tasks, internships abroad, good publications, and Nobel Prizes.



TPU Innovation Center for Nanomaterials and Nanotechnologi



OF THE UNIVERSITIES PARTICIPATING IN THE PROJECT



Central Federal District Northwestern Federal District Southern Federal District North Caucasian Federal District Ural Federal District Volga Federal District Siberian Federal District Far Eastern Federal District



MOSCOW IS ONE OF THE WORLD'S LARGEST MEGA-CITIES

1000 0 0 0 0

- >12,000,000 residents
- > 200 higher education institutions
- > 500 museums and galleries
- 700 theaters

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700 clubs and concert venues 400 hotels 1,000 churches of different religions

MOSCOW KREMLIN

It is the largest active fortress in Europe and is considered one of the world's largest museums. The city's oldest part occupies an area of 27 ha and strikes with the beauty of towers, cathedrals and palaces. Red Square lies east of the Kremlin.

The most convenient way to get here is by metro—four minutes' walk from the Alexandrovsky Sad (Alexander Garden) station, 5–10 minutes' walk from stations such as Biblioteka Imeni Lenina (Lenin Library), Borovitskaya, Arbatskaya, Teatralnaya. Leaving the metro, navigate using the Alexandrovsky Sad sign. You can buy entrance tickets not far from Kutafia Tower.

VOROBYOVY GORY (SPARROW HILLS)

It is the main observation deck in the Russian capital. From the top of the hill, a picturesque view of the forest and park area opens up, and architectural buildings, facilities and churches can be seen. Plenty of ceremonial and cultural events are held there. It's a place for relaxing, taking photos, doing sports, meditating. There is a conservation park with an ecological path, a ropeway working all year round, ski slopes with springboards and a chair lift.

The exit from the Vorobyovy Gory metro station is located 80 meters from the observation terrace. You can get there by water tram along the Moscow River and by bus to the Moscow State University stop.

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VDNKH National Economy Achievement Exhibition

It is one of the most amazing tourist attractions in the Russian capital and ranks among the world's top 50 largest exhibition centers. There are plenty of architectural masterpieces in the territory of the Exhibition—49 VDNKh facilities have the status of cultural heritage landmarks.

You can enter the territory free of charge, but you must buy a ticket to visit the exhibition pavilions.

MAIN BOTANICAL GARDEN of the Russian Academy of Sciences in Moscow

It is the largest botanical garden in Europe. It offers an amazing view of the Academy of Sciences, St. Andrew's Monastery, Monument to Yuri Gagarin, the Moskva River embankments, the business center skyscrapers (Moscow City and MSU Steeple), Christ the Saviour Cathedral, Moscow Kremlin.

A view of the city from the deck near the RAS is amazing. The number of visitors is relatively small. You can visit the deck 24/7, free of charge. It's easy to get to the observation deck. You should walk around 700 meters from the Leninskiy Avenue metro station towards the Russian Academy of Sciences, passing the tall Monument to Yuri Gagarin.

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CONCEPT VENUES OF MOSCOW



RED OCTOBER Art space

It used to be Russia's largest confectionery. Today it is a popular art venue and one of the most fashionable places in Moscow.

It is a unique monument of Moscow industrial architecture comprising over 20 red-brick buildings. You'll never get bored here. Something happens all the time. You can go to concerts, exhibitions, various studios, cafés, restaurants, rent an office—everyone will find an occupation to their liking.

🗧 6, Bersenevskaya Embankment

OLD ARBAT

It is one of Moscow's most attractive tourist destinations, with its exciting past, remarkable architecture, and inimitable atmosphere. Old Arbat is a convenient pedestrian street with numerous stores, restaurants, museums, theaters and amusements, a destination of choice for street musicians and artists.

There are a lot of places of interest in Arbat: Museums of Andrei Bely, Marina Tsvetaeva, Mikhail Lermontov, Alexander Pushkin, Monument to Bulat Okudzhava, Vakhtangov Theater, Tsoi Wall, and many others.





BUNKER-42 ON TAGANKA

It is the world's only museum dedicated to the Cold War between the Soviet Union and the USA. It is also a unique military historic site, accessible to visitors, which exhibits nuclear weapon mockups. It is located at a depth of 65 meters (which is approximately equal to a 20-story building).

Besides the museum, the bunker comprises the deepest restaurant in Moscow, banquet halls, areas for various quests, laser tag, airsoft, conference halls. The bunker is located in the city center, near the Taganskaya metro station.

♀ 11, 5th Kotelnicheskiy Lane



A BAD APARTMENT Bulgakov House Museum

Bulgakov Museum is the world's only memorial showroom dedicated to the life and work of the great writer.

This apartment was called a bad one after The Master and Margarita novel had come out because Satan's Grand Ball in the book took place at almost the same address.

Now the area of the entire communal apartment is occupied by the museum theater. It's a place for tours, exhibitions, and theater performances. Outside, at the entrance to the museum, there are bronze sculptures of the characters from the novel—Korovyev and Behemoth. Visitors leave their inscriptions and wishes in the entranceway. People believe that everything that is written there is bound to happen.

♀ 10, Bolshaya Sadovaya Street, apartment No. 50



Massive chandeliers, stucco work, gold plating—all this makes the grocery store's interior at least unusual. At the end of the 19th century, it was set up by entrepreneur Grigory Eliseev. He wanted to surprise the Moscow audience: even the store entrance was wide enough to allow a carriage to enter the store.

Now the main Soviet grocery store looks more like a museum than a department store. Visitors come here to admire the interiors, rather than just buy food.

💡 14, Tverskaya Street





WINZAVOD Contemporary Art Center

It is the first and largest center of contemporary art in Russia. Beginning artists and designers from the regions take part in exhibitions and professional competitions. The former shops of the winemaking factory comprise over a dozen galleries, stores, education and development centers, cafés and bars, world-class lecture and exhibition halls.

The center is open every day from midday till 8 p.m. like most galleries. Exhibition halls and galleries of Winzavod are closed on Mondays, but stores are usually open at this time. Photo and video recording are allowed with restrictions.

4th Syromyatnicheskiy Lane, 1/8

WEATHER CONDITIONS

The climate is moderately continental. Neither winter nor summer has extreme temperatures. The weather is changeable, especially in spring and fall.

WINTER

The average temperature is around -5...-8 °C. Sometimes it snows, and thaws are frequent. When short-term frosts occur, the temperature falls to -20...-25 °C.

SUMMER

The average temperature is around +16...+20 °C. Sometimes it rains. Short hot periods with over +30 °C, lasting several days or several weeks, are also possible.

GUM Skating Rink

gum.ru

- 1. Choosing clothes and footwear for your trip, you should allow that the temperature can show a deviation of ±5 °C from the forecast in 2-3 days. Be ready for the rain.
- 2. The differences between day and night temperatures in Moscow are non-critical. As a rule, winters in the Moscow Region are a bit cooler than in the city.
- **3.** Don't be afraid of frosty weather in the depth of winter. It's a wonderful season: real Russian winter, but without extreme colds! Sunny frosty January days are much more comfortable than wet snow and wind in March. The main thing you should do is provide yourself with really warm clothes and footwear.
- **4. In December–January,** a light day only lasts 7-8 hours. It means that it gets dark at 4 p.m., and it's dark like at night at 5 p.m. in Moscow. So you shouldn't plan night outings. At this time you'd better attend museums or walk around the city center.
- **5. June** is the time for the rapid spread of poplar fluff (seeds) in Moscow. If you are allergic to pollen, prepare in advance.

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AIRPORTS

The Moscow Region has over ten airports. For international flight connections, three of them are used: **Sheremetyevo** (terminals D, E, and F), **Vnukovo** (terminal B), and **Domodedovo**.

- All these terminals have state-of-the-art infrastructure
- Each terminal has an arrival and departure board and navigation in Russian and English languages, cash machines and bank divisions, taxi-hailing services counters, cafés
- You can buy tickets in box offices, self-service terminals, or online
- Three terminals of Sheremetyevo Airport are directly connected by ground-level crossings
- You can get from each airport to the city center by Aeroexpress high-speed train (the fare is 500 RUB, travel time is 40 minutes on average)
- The taxi fare is 1,500–2,200 RUB, the trip takes from 40 minutes to two hours, depending on the road conditions
- Russia allows import and export of foreign cash and cheques for amounts not exceeding 10,000 USD. Larger sums must be declared

RAILWAY STATIONS

Moscow has **nine railway stations**. They are located around the circumference of the city center. Three railway stations—**Yaroslavsky**, **Leningradsky, and Kazansky**—are located within walking distance of each other at one metro station, Komsomolskaya, on Three Station Square.

Here you'll find anything you like in any price range: from a hotdog or shawarma for 100–150 RUB in the street to top-class restaurants. Moscow presents a lot of franchises and knockoffs of global brands, interesting local concepts. Russians are hearty eaters. Many cafés and restaurants are open almost around the clock, so you'll stay safe from hunger at all times of the day.

METRO

The Moscow Metro is one of the deepest and most beautiful in the world. Every day 10,000 trains carry nine million passengers, which is the highest number in the world.

When you take a train to the center of Moscow, you'll hear a male announcer. But as soon as you cross the city center, you'll hear a female voice announcing the stations. On the ring line, the male voice announces trains traveling clockwise, while the female voice announces trains traveling counter-clockwise.

Domodedovo International Airport

There is no direct high-speed communication between the airports, so if you plan to change in Moscow, for example, from Sheremetyevo to Domodedovo, such a transit between the airports can take over two hours

edclub.com

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Moscow. Supported by Rossotrudnichestvo



tr

TITITI

Three Station Squar

Picturesque bridge

MOSCOW FOR STUDENTS

Young people who get a long-awaited student ID card can be eligible for numerous discounts and benefits. The main thing is to know how and where they can be used.

STUDENT DISCOUNTS

- **1-3%** goods in some grocery stores and pharmacies, confectioneries
- **15%** Aeroexpress train ticket, if booked on the website
- 20-50% movie ticket on weekdays
- **25%** compartment seat, long-distance train ticket
- **50%** inter-city travel on commuter trains
- **100%** admission to museums on free admission days

OTHER WAYS TO SAVE MONEY

Moderate prices for **mobile communications and the Internet** facilitate communication with your loved ones. You can buy a SIM card from any well-known operator near the metro entrance, at airports and railway stations, company offices.

Free Wi-Fi is available to visitors in various cafés, metro coaches, and some city parks. You have to register using an SMS message sent to your phone number.

You can minimize public transport costs using **travel cards**: flat rate for several days or prepayment for several trips.

Numerous cafés and restaurants offer **breakfasts** till midday and **business lunches** from midday till 4 p.m. on weekdays. This is a great opportunity to have a square meal for little money as you pay 300-400 RUB in cafés or 600-700 RUB in restaurants. Always contact public catering employees for details. After all, such offers may not be advertised in the front window.

Average expenses

- **32,000 RUB** Average monthly living expenses in Moscow exclusive of accommodation fees
 - **315 RUB** Mac menu in McDonald's or alternative fast food restaurants
 - 180 RUB Cappuccino
 - 470 RUB Movie ticket
 - 500 RUB Monthly Internet
WHAT CAN YOU DO IN YOUR SPARE TIME WITH YOUR FRIENDS?

Shooting (laser tag, bows, paintball, shooting ranges)—indoor and outdoor venues for special operations with various game weapons.

Action games — a new way to interact with the world around you, feel like a participant in a stage performance, experience new and unusual sensations and emotions. **Go-kart racing**—high speed, sharp turns, adrenalin, and unbelievable emotions. You can race with your friends on outdoor and indoor tracks at any time of year, whether or not you have a driver's license.

VR technologies — virtual reality amusement halls. Glasses or a helmet with such technology will move you to the world of an exciting adventure.

Adventure parks — covering the routes of different complexity levels at different heights. You can visit an open-air park in fine weather or find a shopping center offering such entertainment.

Aerotube—imitation of free flight using air motion at high speed. A flight in the aerotube feels like a parachute jump, only without risking your health.

Waterparks — big swimming pools with clean water, high slides with steep turns, baths and saunas are available at any time of year in indoor aquatic complexes.

Trampoline centers, climbing walls, bowling, various sports clubs, city quests, ballooning, and many other things

> Sources: moscovery.com, traveltables.com, kudago.com, vsemuzei.com, adme.ru

MOSCOW **AVIATION INSTITUTE**

(NATIONAL RESEARCH UNIVERSITY)

12 INSTITUTES

Cale I



136 MASTER'S PROGRAMS, including 17 programs

taught in a foreign language

H

20,000+ STUDENTS



youtube.com/moscowaviationinstitute

- instagram.com/MAI global
- facebook.com/MAIglobal
- twitter.com/MAI int

MAI trains specialists in aeronautical engineering, rocket and space technology, engine manufacturing, IT, robotics, power engineering, new materials, etc.



Bachelor's programs 4,400-6,000 USD Master's programs 5,500-6,000 USD PhD programs 7,000 USD



Founded in 1930

Students can get the Russian Government scholarship





Moscow, Russia



1000 +Overall ranking



251-300 Mechanical, Aeronautical & Manufacturing Engineering



801-1000 Engineering and Technologies



480 in the world 15 in Russia Overall ranking

801-1000 Physical Sciences



304 in the world 12 in Russia Engineering Sciences

Fields of study	Bachelor's programs	Master's programs
Aeronautical Engineering	~	~
Aircraft Engines	✓	✓
Rocket Systems and Astronautics	~	~
Control in Engineering Systems	~	✓
Radio Engineering	~	~
Information and Communication Technologies and Communication Systems	•	~
Bioengineering Systems and Technologies	~	
Electric Power Engineering and Electrical Engineering	~	
Motion Control Systems and Navigation	~	
Economics	~	~
Management	~	~
Materials Science and Technology		~
Ballistics and Hydroaerodynamics		~









ADMISSION OFFICE for foreign citizens

- +7 499 158-00-27
- sng@mai.ru (CIS countries)
- ☑ int@mai.ru (other countries)
- en.mai.ru/admission

PRE-UNIVERSITY TRAINING

Pre-university Foundation Program in Russian-medium

Subjects: Russian language, mathematics, physics

Tuition fee 3,000 USD

Pre-university Foundation Program in English-medium

Subjects: mathematics, physics, computer science, technical drawing, technical English, Russian language

Tuition fee 3,500 USD

MAI is a leading high-tech Russian university creating technologies that determine its tomorrow's image and training leaders able to work with them today.

Over 3,000 students are engaged in the university research.

STUDENT DESIGN BUREAUS

MAI has five student design bureaus that implement real-life research and design projects. Nine small satellites designed by one of them successfully do their tasks in Earth's orbit.

PRIORITY RESEARCH AREAS

- Mathematical Modeling
- Space Systems
- Unmanned Aerial Vehicles
- Additive Technologies
- Electrification of Engineering Systems
- High-technology Products Service
- Artificial Intelligence, Big Data, Internet of Things
- Composite Materials
- Propulsion and Power Plants
- Electric Jet Engines
- Hypersonic technologies
- Robotization

STUDENT ACHIEVEMENTS

- Successful participation in various engineering and professional competitions
- Prizes in international Olympiads, student congresses, champion's titles in aeromodeling, medals of the Academy of Sciences, and many other awards
- Multiple gold medalists in the WorldSkills Russia championship in the Space Systems Engineering competency, winners in the Unmanned Aircraft Systems category





UNIQUE ENVIRONMENT

- The university has unique laboratory facilities such as full-scale equipment samples, including planes, helicopters, rockets, as well as robotics, avionics, and radar systems
- Scientific projects in integrated design and mathematical modeling, unmanned aerial vehicles, propulsion and power plants, electrification of engineering systems, hypersound technologies, artificial intelligence, BigData, Internet of Things, high-technology engineering service, additive technologies, composite materials, as well as robotization
- The Iskra student space design bureau designs small satellites and launches them into space. It has launched a total of nine small satellites designed by several teams of MAI's student design bureaus

INTERNATIONAL ASSOCIATIONS

- CDIO
- International Astronautical Federation
- International Council on Aeronautical Sciences (ICAS)
- PEGASUS—European Group of Aeronautics and Space Universities
- European Aerospace Cluster Partnership
- Association of Sino-Russian Technical Universities
- The Union of Machine Engineers of Russia
- Association "Defense Enterprises Assistance League"
- Association of Leading Russian Universities
- Consortium of Aerospace Universities of Russia
- Association for Engineering Education of Russia
- Association of Moscow Universities
- Association of Russian Technical Universities
- Federation of Cosmonautics of Russia

TARGETED MASTER'S PROGRAM

- Design of Aircraft Structures Made from Polymer Composites
- Aircraft Design
- Product Lifecycle Management Technologies in Modern Aircraft Design

Implementation in cooperation with **Shanghai Jiao Tong University.** > 230 students from Russia and China are pursuing this program.

DOUBLE DEGREE PROGRAMS

English-taught Master's programs implemented jointly with Chinese universities

- Beijing University of Aeronautics and Astronautics (Beihang University)
- Nanjing University of Aeronautics and Astronautics
- Zhejiang University
- Shenyang Aerospace University
- Northwestern Polytechnic University
- Harbin Institute of Technology



MAI trains international students from 9 CIS countries and 66 other countries



ACCOMMODATION

- MAI campus is a uniquely dynamic environment that has everything you need for professional, creative and sports development
- MAI campus has nine comfortable dormitories and life amenities
- MAI dormitory fee is 90 USD per month
- Students live in 2-3 person dormitory rooms with a shared bathroom. The kitchen is on the floor
- There are over 20 cafés, canteens and buffets on campus
- Health insurance is 150 USD
- Arriving students are met at the airport. They are offered a shuttle to the dormitory

Moscow Aviation Institute enrolls more and more talented and motivated young people from all over the world. Over the last five years, it has increased its international student enrollment by more than 2.5 times.











Prawinan Tawarasa, Sri Lanka. MAI's first-year student

I am inspired by the



biography of famous Russian cosmonaut Yuri Gagarin. I've always wanted to become an aircraft engineer. But, to my deep regret, my country doesn't offer aeronautical engineering education. Since his childhood, Prawinan Tawarasa, a firstyear student from Sri Lanka, has been dreaming of becoming an aircraft engineer and working for a major aerospace engineering enterprise that has many customers with huge aircraft fleets. To better prepare for admission to MAI and raise his prospect of success, the young man completed the Pre-university Foundation Program. He passed all entrance tests and took a major step towards his dream in 2020—he entered MAI to major in aeronautical engineering.

Moscow Aviation Institute is one of the few universities in Russia offering educational programs in English.

Alexey Zarechensky, Deputy Head of MAI's International Department

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MOSCOW STATE UNIVERSITY OF TECHNOLOGY "STANKIN"



Founded in 1930

35 FIELDS OF STUDY

> 160 PIECES OF STATE-OF-THE-ART PROCESS EQUIPMENT

MASTER'S PROGRAMS, including one English-

taught program

RESEARCH

LABORATORIES. INCLUDING INTERNATIONAL LABORATORIES

SCIENTIFIC SCHOOLS BRANCH-Yegoryevsk Institute of Technology

> 5,000 STUDENTS AND PHD STUDENTS. including ≈ 700

international students

from 65 countries

INSTITUTES

THINK TANKS

The leading technological university for digital mechanical engineering. STANKIN students are in high demand in mechanical engineering and the IT industry.

The university also trains unique specialists for new jobs in the fields of industrial ecology, robotics and sensorics, metrology, hydraulics, new materials development, economics, engineering.



Tuition fees per year

Bachelor's programs 200,000 — 224,000 RUB Master's programs 214,500—240,000 RUB PhD programs 261,000—267,000 RUB



Over 75 % of the total number of graduates and over 95 % of IT graduates work in their degree field



MSUT "STANKIN"

presentation and video

💌 vk.com/msut stankin instagram.com/msut_stankin

> 8,000 m² OF TECHNOLOGICAL







Forbes

29

among the best

Russian universities





81

291-300



RADK 54

among Russian universities

hedclub.com

SCHOLARSHIPS AND GRANTS

MSUT "STANKIN" offers enhanced scholarship opportunities as well as individual discounts for students standing out in acquiring knowledge and taking an active part in the university's social life.







Reminders for international students

Center of International Cooperation

For preparatory department applicants



INTERNATIONAL LABORATORIES AND CENTERS

- Russian-French Engineering Laboratory of Innovative Additive Technologies, Selective Laser Melting and ColdSpray
- Russian-Spanish Engineering Laboratory of Spark Plasma Sintering
- Russian-Swiss Competence Center for Micromachining Technology
- Russian-Italian Technology Training Center for Mechanical Engineering and Metalworking Technology



STUDENT ACHIEVEMENTS

- In 2019, STANKIN joined the WorldSkills Russia movement. In 2020, it won the gold in the all-Russian championship in the Technology Entrepreneurship competency
- MSUT "STANKIN" students and PhD students regularly take part in and win the contests as part of the UMNIK program of the Foundation for Assistance to Small Innovative Enterprises
- In 2020, MSUT "STANKIN" took first place among 300 finalist teams in the Digital Breakthrough hackathon
- Every year, STANKIN holds the student research and practice conference "Automation and Information Technology" (AIT)

PREPARATORY DEPARTMENT FOR FOREIGN CITIZENS

	Duration	Tuition fee, RUB	Application deadlines				
Pre-university training							
Basic course	1 year	144,000	October 1				
Intensive course	6 months	130,000	November 15				
Advanced course	1.5 years	217,500	February 1				
Language internship							
A2 level and above	8 months	85,000	February 1				
Russian language course							
Advanced level	10 months	165,000	November 1				
Russian language schools							
Summer school	1 month	44,500	June 1				
Winter school			December 1				

ENTRANCE EXAMS

- For Russian-taught programs, applicants take written entrance exams on a compulsory basis
- For English-taught programs, applicants take entrance exams online or are interviewed in English in person. The interview dates are fixed individually for each applicant

Exam dates July 1—October 5



To apply to MSUT "STANKIN," you must fill out the application form and give your contact details. The support service member of the Center of International Cooperation will contact you and help you with the required documents.



ADMISSION OFFICE

Director of the Center of International Cooperation Nadezhda Popova

+7 499 972-94-11, +7 499 973-39-66

⊠ inter@stankin.ru, n.popova@stankin.ru

Field of study	Bachelor's programs	Master's programs	PhD programs
Informatics and Computer Engineering	✓	>	>
Information Systems and Technologies	~		
Applied Informatics	✓		
Instrument Engineering	✓	✓	
Mechanical Engineering	✓		>
Automation of Technological Processes and Production	✓	✓	
Engineering and Technological Support of Machine-Building Production	~	•	
Technosphere Safety	✓	✓	
Material Science and Engineering	✓		
Standardization and Metrology	✓		
Quality Management	✓	✓	
Economics	✓		~
Management	✓	✓	
Human Resource Management	✓		
Mechatronics and Robotics		✓	
Physics and Astronomy			~
Control in Engineering Systems			✓

FREE TUITION OPPORTUNITY

- Within the Russian Government Quota
- If applicants have the documents confirming their status of compatriot

MSUT "STANKIN" does not offer any individual quotas for studying.



There is no limit on the number of fee-paying places in all study programs.

INTERNATIONAL COOPERATION

Double degree programs bachelor's and master's programs



Hungary

Study areas

- Engineering and Technology
- Economics

Academic exchange and internships

- Institute of Technology, Austria
- Institute of Industrial Technologies and Automation, Italy
- National Engineering School, France
- University of Zielona Góra, Higher School of Engineering and Humanities, Poland —

International program "Italian Machine Tools Technology Awards"

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The university offers **programs taught in foreign languages**. To get the necessary information, you can always contact the Center of International Cooperation.



Students' research work on CNC machines

LEADING SCIENTIFIC SCHOOLS, MAJOR PROJECTS

- Manufacturing systems engineering and digital manufacturing design
- Tool design and manufacturing
- Creation of nano- and composite materials and coatings
- Metrological support of machinery production
- Design of process equipment and cyber-physical manufacturing systems
- Research on the properties of powders for additive manufacturing, prototyping, and small-batch additive manufacturing
- Robot systems and CNC mechatronic systems
- CNC systems for process equipment, CAD, and production process automation
- Controlling, design to cost
- Ecology and safety in mechanical engineering

MEETING AND SUPPORT

Students from various countries are met at the airport by volunteers speaking foreign languages. This service is discussed individually with each applicant.

ADAPTATION

- Documentation support
- Social adaptation activities
- Student societies, fellow-countrymen associations, other associations

The Center of International Cooperation staff members can speak five foreign languages: English, French, Spanish, Arabic, and Farsi.

CAMPUS

- Each international student coming to the university gets a place in the dormitory on the day of arrival
- The dormitories are not far from the educational building
- The dormitory is block-type. Each block has two rooms, a toilet room, a bathroom, necessary furniture, housekeeping equipment
- The dormitory has special rooms for cooking, academic training, sports
- Married couples are offered a separate room

SECURITY

- 24-hour video surveillance
- Dormitory rules compliance control

The university creates the most comfortable environment taking into account the mindset and cultural backgrounds of students from various countries.











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Akram Al Huri, Syria

STANKIN helps international students get cutting-edge education, become professional engineers and IT specialists so that they can take their region's industry to a new level afterwards.

Nshot Axel Fernandez Vercruiz, Côte d'Ivoire

Why MSUT "STANKIN"? It offers high-quality education and preparatory Russian language courses. I learned the language by attending the courses, communicating with my roommates in the dormitory, and studying on my own. The university promotes research in mechanical engineering as it is the leader among Moscow universities in this field.

Ibrahim Haled Hamdi Mohamed, Egypt

I believe that studying abroad helps students acquire a lot of useful skills. Here I made new friends from all over the world. Students from 65 countries are studying at STANKIN. Teachers treat students as equals. STANKIN is a big international familv.

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The Engineers of the Future forum, Orenburg, 2019











6> 1306PHYSTECH SCHOOLSLABORATORIES AND
RESEARCH CENTERS6BACHELOR'S
PROGRAMSBACHELOR'S
PROGRAMSMIPT is the leading
institution in Russ
quality of enrolling
and skills. It train
experimental and
informatics, cher1810SPECIALIST'S PROGRAMMASTER'S PROGRAMSPHD PROGRAMSSPECIALIST'S PROGRAMMASTER'S PROGRAMSPHD PROGRAMS

3 DISSERTATION COUNCILS

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instagram.com/mipt.ru

facebook.com/mipt.ru

> 8,000 STUDENTS, 16% are international students 3,400 TEACHERS, > 80 are Academicians and Corresponding Members of the RAS MIPT is the leading technical higher education institution in Russia, the rightful leader by the quality of enrollment and graduates' competence and skills. It trains specialists in theoretical, experimental and applied physics, mathematics, informatics, chemistry, biology, and allied subjects.

Founding fathers of Phystech are three Nobel laureates: Pyotr Kapitsa, Nikolay Semenov, and Lev Landau.





Bachelor's and Specialist's programs 290,000—320,000 RUB Master's programs 295,000—350,000 RUB PhD programs 320,000—375,000 RUB





A virtual tour



Virtual Doors Open Days: Bachelor's and Specialist's programs



Virtual Doors Open Day: Master's programs



1 among technical Russian universities



Top 50 Life Sciences

Top 100 Computer Sciences



3 in Russia



3 in Russia

• Dolgoprudny, Moscow Region, Russia

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STRUCTURE

- Phystech Schools
 - Landau Phystech School of Physics and Research
 - Radio Engineering and Computer Technology
 - Aerospace Technology
 - Electronics, Photonics and Molecular Physics
 - Applied Mathematics and Informatics
 - Biological and Medical Physics
- Institute of Nano-, Bio-, Information, Cognitive and Socio-humanistic Sciences and Technologies
- Higher School of System Engineering
- Department of Technological Entrepreneurship

ARTIFICIAL INTELLIGENCE LABORATORY

Research areas:

- Natural language processing and generation
- Computer vision
- Multimodal neural networks
- Recommender systems •
- 💌 vk.com/lab

FOREIGN PARTNERS





- 23 laboratories
- 300+ staff members
- 7 research areas
- 20 R&D projects
- 5 infrastructure projects





Phystech. Science—about science with humor

Phystech Bachelors scientific and

Phystech. International Olympiad



- **ADMISSION OFFICE**
- +7 495 408-48-00
- 🖂 pk@mipt.ru

INTERNATIONAL DEPARTMENT

- +7 498 713-91-70
- interadmission@phystech.edu
- eng.mipt.ru/how-to-apply





SUMMER OLYMPIAD SCHOOL

Russia's first university camp for Russian and international senior high school students that are fond of science and strive to learn something new.

- Popular science lectures
- Creativity master classes
- Leisure activities



- educational student team

INFRASTRUCTURE

- Campuses in Moscow (Zyuzino microdistrict), Dolgoprudny, and Zhukovsky. Buildings: main building, microelectronics building, applied mathematics building, laboratory building, auditorium building, radio engineering building, Phystech.Arctic, Phystech.Digital. 12 dormitories
- Centers: IT Education Development Center, Al Competence Center of NTI, Technology Transfer Center, Innovation and Technology Center
- BioBusiness Incubator
- MIPT History Museum
- Sports center: a stadium, a swimming pool, a skiing center, halls for boxing, wrestling and gymnastics, a gym, a chess room
- Research laboratory for basic and applied research in biological cybernetics, physical education and sports

DORMITORIES

All international students are accommodated in dormitories. Each dormitory has everything students need for comfortable living and studying: reading rooms, sports rooms, laundry rooms, student event clubs, Internet access.

The dormitory fee is 1,400 RUB per month.

- Security is ensured by the MIPT's security department
- Medical care is provided at health facilities located near the place where students live and study. Health insurance cost is 7,500 RUB







MIGRATION REGISTRATION AND VISA SUPPORT

- \$ +7 495 408-75-63
- intoff@mipt.ru
- ⊠ chueva.ia@mipt.ru

CAREER CENTER

Graduate employment promotion center

- Every assistance to MIPT students and graduates in their professional fulfillment
- Careful selection of job openings, assistance in employment and adaptation to a new workplace
- Career Days—a traditional platform for MIPT students' communication with representatives of science-driven, high-technology, and consulting companies
- +7 495 408-64-45
- 🖂 job@mipt.ru
- vk.com/miptjob
- job.mipt.ru



KEY FIELDS OF STUDY

- Applied Mathematics and Physics
- Applied Mathematics and Informatics
- System Analysis and Management
- Informatics and Computer Engineering
- Traffic Control Systems and Navigation
- Aerospace Technology
- Biotechnology
- High Technologies and Economy of Innovations
- Cybersecurity







MIPT Master's and PhD programs

d English-taught programs

English-taught PhD programs

DOUBLE DEGREE PROGRAMS

Bachelor's programs

- 🔹 RANEPA, Russia 🚃
- École Polytechnique, France

Master's programs

- 🔹 Skoltech, Russia 🚃
- Grenoble Institute of Technology, France
- École Polytechnique, France 🚺



The winners of the Best International Students 2020 award are the most talented international students of MIPT from non-FSU countries



PREPARATORY DEPARTMENT FOR FOREIGN CITIZENS

Offline learning

- Extracurricular educational work aimed at successful social and cultural adaptation
- Tuition fee discounts on MIPT's degree programs for students who successfully complete the course
- The certificate that allows students to apply for degree programs in a relevant study area at any Russian university

Study areas

- Natural sciences: Russian language, mathematics, physics, chemistry
- Engineering and technology: Russian language, mathematics, physics, informatics

Start October 1 Duration 8–10 months Tuition fee 175,000 RUB

Distance learning

Russian language and general disciplines

Duration 10 months

Learning mode—at least 24 contact hours per week

Tuition fee 150,000 RUB





MIPT INTERNATIONAL

Adaptation of international students to MIPT.

assistance in problem-solving, strengthening friendly relations among students of different nationalities.



wk.com/mipt international

EXCHANGE CLUB MIPT

- Events for international and Russian students
- Russian Speaking Club
- Academic advisement for international students
- News about international students' life at MIPT
- Useful information for international students



vk.com/miptx

PHYSTECH BUDDY

It will help international students overcome cultural and language barriers. In their turn, buddy students will improve foreign languages and find new friends from all over the world.

vk.com/phystechbuddy

MIPT STUDENT COUNCIL

It supports students' initiatives, assists in their implementation and promotion, protects students' rights.

💌 vk.com/mki mipt

SOFT SKILLS DEVELOPMENT SCHOOL

Students can attend free workshops, master classes, lectures to develop their social and communicative skills and emotional intelligence.

唑 vk.com/softskillsmipt



COUNSELING & PSYCHOLOGICAL SERVICES DEPARTMENT

It will help cope with stress, resolve conflicts, find a way out of a difficult situation. International students can contact an English-speaking psychologist.

- +7 903 271-35-79
- 🖂 psy@mipt.ru
- vk.com/sdmipt

LEISURE AND CREATIVITY

- Media club
- Historical simulation club
- Mafia game fans club
- Chamber choir
- Jayanti Oriental dance studio
- Ballroom dances
- Student theaters: Tochka, student pop sketch of the Faculty of General and Applied Physics, MimO
- Student pop sketch theaters TORTiK and ETO T'MA
- Board games club
- mipt.live MIPT musicians association
- MORE>SOUND—the most high-profile, spectacular and large-scale parties at Phystech
- I Like Trip travel enthusiasts association



ФТИ



Nguen Thanh Lam, Vietnam

"

I like living in Russia very much, though it took me a long time to get accustomed to the local climate. Before I came to Russia, I had bought some warm clothes. But, when I came here, I realized that it's not exactly what I needed. I had to buy other winter footwear and a jacket. I took a fancy to Russian cuisine. I always have meals in the institute's canteen and café. I live only a few steps away from the institute, in the modern dormitory.

MIPT student life is full of events. We take part in various cultural and sports events such as Doors Open Day, the Miss MIPT contest, football matches, championships, and many others. I can say that MIPT has everything we need to lead an active life: gyms, a swimming room, a stadium, a football hall, a skating rink. Russia and the institute made a great impression on me.

Maaz Amjad, Pakistan

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As a MIPT student, I can say that the institute puts a lot of time into the development of the favorable environment for studying and free communication. I like the institute's teaching style. Our professors always try to create a comfortable environment, where students aren't afraid to ask questions and share their experiences.

Here you can join the Russian academic community—that's one of the main reasons why I chose a Master's degree at MIPT. I'd like to add that I really appreciate the international department's help and positive attitude to students. I wish MIPT success in training future scientists for our society.



Gabriel Giménez. Salvador

Not only Russian but also European, Asian, and American students and scientists know MIPT well. It's not easy to study at the institute, but you have an opportunity to get a high-quality education. As I am a foreign national, the cultural differences and language barrier make the learning process even more difficult. The Russian language is a language of poetry and literature, it's so beautiful, but you should work hard to master it. However, you should try to overcome all these difficulties to learn from worldclass teachers, gain in-depth knowledge, and take part in the research.

I am from Salvador. It's not the most developed country. Methods of teaching and knowledge assessment used in Salvador and Russia differ markedly from each other. Studying at MIPT meets all modern education requirements.

"



g COLLEGES

BRANCHES (4 in Russia, 2 abroad)

RESEARCH LABORATORIES

WORLD-CLASS ENGINEERING CENTERS

BACHELOR'S AND SPECIALIST'S PROGRAMS

MASTER'S PROGRAMS

> 200

PHD PROGRAMS

SECONDARY VOCATIONAL PARTNER UNIVERSITIES EDUCATION PROGRAMS

> 22,000 STUDENTS

25% INTERNATIONAL STUDENTS from 84 countries

- facebook.com/nustmisis
- instagram.com/nust_misis
- vk.com/nust misis







University tour

Open House Day

University website en.misis.ru

Moscow, Russia

National University of Science and Technology MISIS is a leading technical university with a hundred-year history, where the learning process is organized at the nexus of science and technology. Starting from the first year, students have an opportunity to take part in research, solve realworld production problems and do business cases. undertake internships at university's business partners' enterprises.





Bachelor's and Specialist's programs 209,500-270,700 RUB Master's programs 230,300-343,900 RUB PhD programs 327,700 — 357,700 RUB

70 researchers with the h-index over 20

53 online courses on Open Education and edX platforms



CAREER CENTER

- > 200 career events per year
- Personal development and professional navigation programs
- Job openings from > 1,600 university's partner employers

> 30 INNOVATIVE COMPANIES FOUNDED BY STUDENTS AND GRADUATES



The university trains specialists in traditional areas such as mining, metallurgy, materials science, economics, linguistics, as well as breakthrough areas, including quantum, information, additive, green and biotechnologies.



Citizens of CIS countries may apply for statefunded places at NUST MISIS:

- Under the compatriots abroad support program
- Under intergovernmental agreements

ADMISSION OFFICE

- 🔇 +7 499 649-44-80
- 🖂 vopros@misis.ru



PREPARATORY DEPARTMENT

Training programs:

- Engineering and technology
- Natural sciences
- Economics

Tuition fees:

- 120,000 RUB for citizens of former USSR countries
- 170,000 RUB for citizens of other countries

Duration: 1 academic year (10 months)

Start: October 1, 2021

Full-time study, with distance learning technologies

- Highly qualified teachers
- Modern campus in the center of Moscow
- One of the best dormitories in Russia
- International environment
- Exciting student life



Russian universities. NUST MISIS



INFRASTRUCTURE

- The educational buildings are located in the center of Moscow, the Oktyabrskaya metro station
- 37 laboratories, including Superconducting Metamaterials; Advanced Energy Efficient Materials; Biomedical Nanomaterials
- FabLab Digital Production Laboratory
- The Point of Birth of Innovations academic and laboratory center
- KINETICA Engineering Center for Industrial Prototyping of High Complexity
- Materials Science and Metallurgy shared use research and development center
- V. V. Ershov Geological Museum
- Dom-Kommuna, a renovated constructivist architecture monument, the Leninsky Prospekt metro station
- The Metallurgist campus area, the Belyaevo metro station
- The Miner campus area, the Leninsky Prospekt metro station
- The Mining Student House campus area, the Studencheskaya metro station
- Sports centers, the Oktyabrskaya and Belyaevo metro stations

DORMITORIES

All international students are accommodated in the dormitories that have everything they need for comfortable living and studying. There is highspeed internet, computer classrooms, a reading hall, a canteen, and a laundry room.

NUST MISIS campuses have a well-developed infrastructure, including a swimming pool, a sports center, a hair salon, a café, and an independent boiling room.

All the dormitories are within transport distance of the university. It takes not more than 20 minutes to get to the educational buildings.







Main building hall

INTERNATIONAL ACADEMIC MOBILITY

NUST MISIS offers double degree and exchange programs, research internships, as well as summer and winter professional and language schools with partner universities, including:

- Vienna University of Technology, Austria
- Tor Vergata University of Rome, Italy
- Freiberg University of Mining and Technology (TU Bergakademie Freiberg), Germany
- Valencia Polytechnic University, Spain
- École nationale d'ingénieurs de Saint-Étienne, France
 - Beijing University of Science and Technology, China
 - University of Texas at Dallas, USA



BRANCHES

A. A. Ugarov Stary Oskol Technological Institute trains specialists in metallurgy, mining, information technologies, and economics

Vyksunsk branch trains specialists in metallurgy, technological machines and equipment, materials science and technology, control in engineering systems, and economics

Novotroitsk branch trains specialists in metallurgy, technological machines and equipment, electric power engineering and electrical engineering, chemical engineering, heat power engineering and heating technologies, economics and management

Gubkin branch trains technosphere safety specialists

Dushanbe branch (Tajikistan) trains specialists in metallurgy, economics, informatics and computer engineering

Almalyk branch (Uzbekistan) trains specialists in metallurgy, mining, automation of technological processes and production

INTERNATIONAL ACADEMIC MOBILITY DEPARTMENT



- 🔇 +7 499 230-24-09
- 🖂 welcome@misis.ru



International students may be eligible for the following scholarships as part of international exchange programs:

- Scholarships of the French Government under the Embassy in Russia to study at French universities
- Gustave Eiffel scholarship program
- Russian President scholarship to study abroad
- **DAAD** scholarships to study in Germany
- Erasmus+ program scholarship





24 / PROGRAMS AT ALL DEGREE LEVELS, INCLUDING BRANCHES



SCIENTIFIC EVENTS

- **Days of Science**—an annual series of events that unites school and university students from all over Russia for participation in research conferences and contests (Science Slam, TurNIR), as well as the Youth Award for Science and Technology
- **Christmas lectures** an annual series of events with the participation of world-famous scientists representing a wide variety of fields of science: from theoretical physics and virology to economics and materials science
- Endless Science the project that mainly aims to promote Russian science, as well as NUST MISIS scientists' achievements. Visiting researchers present their latest R&D findings to the university's students and staff



STUDENT ASSOCIATIONS

- Student Scientific Union
- MISIS Media student media center
- Sports teams
- Creative studios
- MISIS eSports
- Volunteer Club
- Elocution School



INTERNATIONAL FRIENDSHIP CLUB

- International youth conferences and forums
- International student adaptation
- Day of Nationalities
- Tours for international students
- Model UN
- IFC Spartakiad
- 💌 vk.com/clubinternational









Tania Shakhti Corthay, Switzerland



I earned my Master's degree from NUST MISIS and then entered my PhD degree. I specialize in powder metallurgy. Besides. I am a resea

metallurgy. Besides, I am a research engineer at the laboratory of inorganic nanomaterials.

At NUST MISIS, I had an opportunity to take part in Days of Science. That was a great experience.

The most pleasant part of university studies is when your research findings are published. Even if they are published in international journals that are not the leading ones, I am still so proud of that. Once I was even interviewed for Russian TV!

Now I am developing the International Student Council. We are planning events and some activities for our international students.



Correia Paulo Mundundi, Angola



After I earn my Bachelor's degree, I will apply for a Master's degree at NUST MISIS. Studying in a foreign language is difficult, but it offers huge prospects.

I've been the President of NUST MISIS African Union since 2018, and we traditionally organize the African Union Day. This year the event brought together 600 people, including the embassies' representatives.

NUST MISIS is the best university in the world, and I am proud to study here!



Alevtina Chernikova

NUST MISIS Rector

National University of Science and Technology MISIS follows the Student First principle. It's for you, bright and ambitious young people, that we create an atmosphere for scientific inquiry, develop academic freedom, offer interesting and ambitious tasks to do.

NUST MISIS is a world-class dynamic research and education center. It has created a comfortable environment for getting a high-quality education, immersing oneself in research, developing each student's abilities and talents. The university campus is located in the heart of Moscow, near the legendary Gorky Park, Garage Museum of Contemporary Art, and the Tretyakov Gallery.

NUST MISIS develops an international environment: a quarter of students are young people from 84 countries. The university has the International Friendship Club and the International Student Council that facilitate adaptation for international students.

The university also has the Russian Language Center that helps students from CIS and other countries gain linguistic knowledge and get to know the Russian culture better.

University of Science and Technology MISIS is waiting for you!

I.M. SECHENOV FIRST MOSCOW STATE MEDICAL UNIVERSITY

OF THE MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

DEPARTMENTS

SPECIALIST'S

PROGRAMS

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14 INSTITUTES

9

BACHELOR'S PROGRAMS

49 RESIDENCY PROGRAMS

MS PHD PROGRAMS

2,300 UNIVERSITY TEACHERS

18,000 STUDENTS, including 4,000 international students from > 90 countries



MASTERY SCHOOLS

SECONDARY VOCATIONAL

EDUCATION PROGRAMS

MASTER'S PROGRAMS

Sechenov University

The graduate employment rate is 97 % for Russian citizens and at least 60 % for citizens of non-CIS countries.







Multilingual environment

• Moscow, Russia

Sechenov University is one of the oldest internationally recognized Russian universities, the Russian medical education leader, the academic, research and resource center of excellence in Russian healthcare. It offers a full range of academic programs for the most talented students from all over the world.

💌 vk.com/sechenov_ru

- (·)

- instagram.com/sechenovuniversity
- facebook.com/sechenov.ru



in Russia





SECHENOV UNIVERSITY

Founded in 1758

570 Clinical Medicine

UNIVERSITY RANKINGS 154



601+ Clinical, Preclinical & Health

507 in Europe

451-500

101-200

Good Health

and Well-Being





IMPACT RANKINGS

601+ Partnership for the Goals

V WOSCOW, RUSSI

INTERNATIONAL PARTNER ASSOCIATIONS



A co-founder of the Association of Sino-Russian Medical Universities that unites over 100 universities.

Cooperation with the World Health Organization on prevention of non-communicable diseases.



N.I. Pirogov Student Scientific Society

Almost 3,500 members, 146 circles, 500 meetings per year, eight clubs, clinical and experimental activities, prizes at conferences, published articles, grants, patents.



唑 vk.com/snossmu

International Students of Sechenov University



唑 vk.com/intersechenov

ADMISSION COMMITTEE

- +7 495 622-98-20
- ⊠ pk.pmgmu@gmail.com

SCIENCE

- 2 research institutes
- 6 institutes for development
- 33 research laboratories
- 25 research and education centers
- > 200 inventor's certificates and patents for discoveries and inventions obtained over the last five years
- > 150 international scientific and research and practice events every year





UK-Russia Summer School in Innovative Surgery

SCIENTIFIC AND COMMUNICATION PROJECTS

- Sechenov Live is the project involving foreign researchers that deliver lectures to students and PhD students, conduct research at Sechenov University laboratories, and publish their research findings in the leading international scientific journals co-authored with the university scientists
- Nobel Talks @SechenovUniversity is an interdisciplinary discussion platform, where Sechenov University delivers open lectures, evaluates research projects on different subjects, prepares summaries on present discussions organized at the University



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For international applicants Information about the university, admission, studies, student life

INFRASTRUCTURE

- Five student dormitories with 2,600 places available
- The central scientific medical library
- The Center for Research Career, the clinical center, the congress center
- The Biomedical Science and Technology Park, the Medicine History Museum, a botanical garden, a vivarium
- The New Art Cultural Center, the FIRST MED MEDIA student media center
- The health center, the medical center
- The Burevestnik Sports Center, the Phoenix student sports club, the Sechenovets sports and health camp

MIGRATION AND VISA SUPPORT

- Student visa
- Documents required to stay in Russia
- Representation of students' interests at the Russian Federal Migration Service

💐 +7 495 609-14-00, ext. 2084, 2038

🖂 invitation@sechenov.ru

SECURITY

- Security is ensured by staff members of licensed security providers
- Staff members, students, and visitors (patients) are drilled in safe and timely evacuation from Sechenov University buildings
- The premises have video surveillance and access control equipment





Baku Branch is the first foreign branch of the university. Founded in 2015



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Institute of Professional Education accepts foreign citizens for all kinds of postgraduate education:

- Residency programs (2-3 years)
- PhD programs (3-4 years)

EMPLOYMENT CENTER

- Information support, legal, social, and economic protection of Sechenov University graduates
- Up-to-date information about prospective employers, internships, job openings at medical and pharmaceutical organizations

№ +7 495 609-14-00 (ext. 2242)
≥ mr7122794@yandex.ru

INTERNATIONAL COOPERATION

> 150 foreign partner universities, including seven universities ranked among Top 200 in QS World University Rankings 2021

> 450 international students and specialists from the world's top universities undertake internships at Sechenov University clinical facilities

- Joint international projects
- Internships abroad at the best global centers
- International academic mobility programs
- International recognition of educational programs

ENGLISH-TAUGHT PROGRAMS

Specialist's programs

- General Medicine
- Dentistry
- Pharmacv

Master's programs

- Linguistics
- Public Health



- Innovative Drugs University of Franche-Comté, France
- Computer Simulation in Pharmacology University of Paris, France
- Public Health Harbin Medical University, China 🛄 and Medical University of Varna, Bulgaria 🚃

JOINT PHD PROGRAMS

- Tissue Engineering and. Remodeling **Biotechnologies for Body Function** University of Rome Tor Vergata, Italy
- Nanosciences and Advanced Technologies in **Pharmacy and Translational Medicine** University of Verona, Italy
- Reflexotherapy (Traditional Chinese Medicine major)

Henan University, China 🔛

AMEE Center at Sechenov University is the first foreign representative office of AMEE in Central and Eastern Europe. It aims to build a professional community of Russian medical universities that efficiently combine the best traditions of Russian education with cutting-edge international practices.



CENTER FOR INTERNATIONAL EDUCATION

Director Mr. Dmitry Morozov 义 +7 495 609-14-00, ext. 22-18 admissionsechenov@gmail.com

PREPARATORY DEPARTMENT FOR INTERNATIONAL APPLICANTS

Subjects: Russian as foreign language, Biology, Chemistry, Physics, Mathematics

October 1, 2021 — August 31, 2022 255.000 RUB

February 1, 2022—August 31, 2022 130,000 RUB

The program provides the knowledge required to enter the university and contributes a lot to the adaptation of students to Russia.

STUDENT COUNCIL

It carries out a wide range of extracurricular activities, offering students the most diverse opportunities for personal development. These include mind games, international acquaintances, and tasting various cuisines!

vk.com/sovet_sechenov



TUTOR DEVELOPMENT CENTER

Qualified tutors supervise groups of firstyear students and help them adapt to a new environment, answer their questions, discuss various topics together with students, explain difficult material, and just become mentors for younger guys.

💌 vk.com/tutor_1msmu



COUNCIL OF FELLOW-COUNTRYMEN COMMUNITIES

It unites international students of Sechenov University, resolves the issues and problems related to their study, carries out ambitious activities in eight areas, including science, charity, and sports.

Departments:

- **Unity Science**—online sessions and webinars in English
- **Unity Law**—regulatory consulting services
- **Unity Tutoring**—adaptation assistance and support
- Unity Media development of students' own media channels, creation of social media groups
- Unity Design designing posters, booklets, presentations, diplomas
- Unity Sport—sports events
- Unity Charity—charity events
- Unity Culture mass cultural events







Umar bin Mat Yaacob, Malaysia

After finishing high school in Malaysia, I received a government scholarship and came to study medicine in Russia. Thus, my parents do not have to pay tuition fees. I want to become a heart surgeon. At Sechenov University, we have all the conditions for the successful study of my chosen profession and further practical application of the knowledge gained. After graduation and residency, I plan to come back home.





Yang Yanbin, China

When my uncle learned that I want to become a doctor, he advised me to apply to Sechenov University. I got admission, and I am so happy. The training system is convenient. Our teachers help us to overcome the language barrier. During our classes at the clinical departments, we study theoretical courses first and then go to patients to practice and reinforce the material learned. Together with teachers, we discuss interesting medical cases and are present at surgical procedures. After graduation, I plan to finish the residency and then come back to work in China.



Djordje Zogovic, Montenegro

I made up my mind to continue my education at Sechenov University because it is considered one of the best in Russia. Our peoples have similar cultures and mentality. The most important thing is that you can get a highquality education here and become a soughtafter specialist. Students have the opportunity to see state-of-the-art equipment (such as DaVinci robotic surgical system), which is not yet standard in Russia and most countries. I liked everything, and I have the most beautiful impressions of my Sechenov University study.





In our country, we have a special program to send us to study in Moscow with the tuition fee paid by the state. That's how I entered Sechenov University. After graduation, I will come back to Namibia to work as a pediatrician. The university has a good system of education, a high level of teaching. Our teachers give information in an easy-to-understand form but make us think. I attend lectures delivered in English and also learn Russian. I really like Russia and the Russian people. I have no problems communicating with them.

GNESIN RUSSIAN Academy of Music

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FACULTIES

D

DISSERTATION COUNCIL

> 2,500 STUDENTS, including > 350 from 43 countries PARTNER EDUCATIONAL INSTITUTIONS all over the world

HONORED OR PEOPLE'S ARTISTS OF THE RUSSIAN FEDERATION

The basic organization for music and education-related cooperation of the CIS member states in the field of culture and art.

THE ACADEMY COMPRISES

- Gnesin Musical College
- Music College of Pop Music and Jazz Art
- Music School of Gnesin Russian Academy of Music



Applicant's Personal

Account



A guide for international applicants.pdf



Graduate Employment Promotion Center

The only higher music education institution in Russia with the UNESCO department—the Department of Musical Art and Contemporary Performance.

The unique education system—full cycle. Raising a musician from music school to PhD degree and qualification apprenticeship.



Bachelor's programs 585,000 – 630,000 RUB Specialist's programs 600,000 – 630,000 RUB Master's programs 700,000 – 810,000 RUB Qualification apprenticeship programs 585,000 – 615,000 RUB PhD programs 525,000 RUB



Founded in 1895



The study programs are ranked among the Best Educational Programs of Innovative Russia

The first position

among arts and culture education institutions in Russia

Moscow, Russia



CONSULTATIONS FOR APPLICANTS

Video consultation is a new kind of consultation that allows applicants from anywhere in the world to undergo an assessment of their preparation for entrance exams at the Academy.

Video consultation includes:

- Viewing and analyzing of your video
- Oral (via electronic systems) or written reply from the Academy's teacher

STUDYING

For international students who are outside the Russian Federation, all in-person lectures, practical classes, seminars will be doubled in courses created on the Google for Education platform.

If you have any questions about stay in Russia and the learning process for international students, feel free to contact **the International Students and Foundation Programs Department**.

⊠ indekanat@gnesin-academy.ru



+7 903 708-09-60 (WhatsApp) for international applicants applying within the Russian Government quota



PREPARATORY DEPARTMENT

- High-quality preparation for entrance exams
- Individual recommendations for each course attendee
- Studying Russian in the most effective format (small groups and a lot of lecture hours)
- Adaptation to life in Russia

Admission requirements

- Students who finished a music school (the average age is 18-30) are eligible
- Russian language proficiency is not required

Duration

October 1—June 30, 2022 (offline/online)

Application deadline

July 1-September 25, 2021

Tuition fee 210,000-330,000 RUB

Admission steps

- 1. Choose a study program
- 2. Apply in Russian or English, attaching the required documents
- 3. Pay for the preliminary selection (video audition)
- 4. Pass the selection
- 5. Pay for preparatory courses

Daria Kasatkina

- +7 963 717-15-98
- inpodotdel@gnesin-academy.ru

RUSSIAN STATE UNIVERSITY NAMED AFTER A. N. KOSYGIN (TECHNOLOGIES. DESIGN. ART)

13 INSTITUTES

2 BRANCHES

10 SPECIALIST'S PROGRAMS GYMNASIUMS (university-preparatory schools)

SECONDARY VOCATIONAL EDUCATION PROGRAMS

75 MASTER'S PROGRAMS



15,000

STUDENTS PURSUING

CONTINUING

EDUCATION

PROGRAMS

COLLEGE

9n

BACHELOR'S

PROGRAMS

2 DISSERTATION COUNCILS 10,404 STUDENTS, including 1,100 international students from 45 countries

vk.com/rsukosyginfacebook.com/RguDeti







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Virtual Doors Open Day

3D university tour

Moscow, Russia

A multidisciplinary research and education center with high potential and a flexible lifelong learning system, from supplementary education of children, advanced education, secondary vocational education to PhD and doctoral degrees.

Technologies.Design. Art is a triunity containing the concept of developing the professions of the future. Interdisciplinary links allow the university to create new programs and apply new learning technologies: from classroom lessons and master classes to practical popularization of project activity using state-of-the-art IT.





Founded in 1930

Bachelor's programs 99,000—373,200 RUB Specialist's programs 198,000—373,200 RUB Master's programs 150,000—450,000 RUB PhD programs 300,000—315,000 RUB Apprenticeship programs 440,400 RUB





hedclub.com

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CAREER CENTER

- The list of job openings
- Information about possible internships and work placements
- Events promoting the development of professional qualities and skills
- Advice on personal development in the professional sphere

90 % OF GRADUATES ARE EMPLOYED

唑 vk.com/careerrsu

Associated partner of the Worldskills Russia Union, participant of Russia's national projects "Education" and "Science"

FREE TUITION OPPORTUNITY

International applicants may apply for state-funded places at RSU named after A. N. Kosygin on equal terms with Russian citizens if they are citizens of CIS countries such as kazakhstan, we Belarus, Tajikistan, kazakhstan and as part of the Compatriot Abroad program.





You may apply for degree programs and submit your documents offline and online





Foreign citizens take their entrance exams according to the regulations and schedule

ADMISSION OFFICE

- 💙 +7 495 951-31-48
- +7 495 811-01-01, ext. 1300
- 🖂 priem@rguk.ru





FIELDS OF STUDY AND MAJORS

 > 50 study programs in the fields of technology, humanities and economics, and art



> 250 educational programs



Three joint degree programs with **Tashkent Institute of Textile and Light Industry**, Uzbekistan

International cooperation



PREPARATORY FACULTY

Russian as a Foreign Language program

Study areas: medicine and biology, humanities, natural sciences, engineering and technology, economics

- Summer and winter schools The study program includes lexis, grammar, speaking, reading, listening, writing, country studies
- Professional study and work placements

Classes are conducted offline and online

Duration 6, 12, 18 months

Tuition fee 160,000 RUB per year

INFRASTRUCTURE

- The main university building is located in the center of the Russian capital. It is a Russian cultural heritage site—Constructivism monument
- The educational buildings and university campus are located in three administrative districts of Moscow
- Research and education center with a collection of art tissues that includes over 30,000 unique items, starting from the 18th century
- The library has a collection of > 1,403,837 items, including 1,128,332 printed, 275,505 electronic, and > 3,000 exclusive editions
- National design and fashion center
- Education technological support center
- Engineering center for innovative materials and technologies of the light industry of RSU named after A. N. Kosygin



DORMITORY

All international students live in comfortable dormitories, each room accommodating two or three persons. There is a branching transport network near the dormitories. The shopping and recreation centers are within walking distance.



CAMPUS

- 4 buildings of corridor-type and block-type dormitories
- A gym, individual study rooms, coworking areas, a football field
- Student self-governance and creative activities
- wk.com/official_stud_gorodok

SECURITY

The university and dormitories ensure security 24/7. All students get special access cards to enter the university and campus through turnstiles.

INSTITUTE OF INTERNATIONAL EDUCATION

- Execution of documents for legal stay in Russia
- Execution of an invitation to enter Russia for studying, a multi-entry student visa upon arrival in Moscow
- Consultations on getting a health insurance policy

Director Tatiana Kolyadina

- +7 495 811-01-01, ext. 1495
- ⊠ imo@rguk.ru, priem@rguk.ru
- 💌 vk.com/imorguk
- www.imomgudt.com


PRIORITY RESEARCH AREAS

- A matrix approach to the development of Digital Industry 4.0 at industrial enterprises of the textile and light industries
- Intelligent systems in industrial process control
- Natural sciences as a source of basic and applied research development
- Basic and applied research in the field of development, modification, and study of structure and properties of artificial, synthetic, and nature-like polymer fibers and materials
- Simulation and design of industrial processes ensuring energy and resource-saving
- Development of basic and applied research in arts and design
- Human capital as a basis for the development of social and legal and financial and economic relations in the context of the socially responsible economy
- University 4.0 as a basis for training of specialists in the format of open spaces



Engineering center for innovative materials and technologies of the light industry

SCHOLARSHIPS AND GRANTS

- Monthly scholarships during the entire period of study for all international students enrolled in state-funded places
- Personal scholarships from RSU named after A. N. Kosygin
- Scientific institutions' grants
- Municipal, regional and federal scholarships
- The Moscow Government scholarships
- Grants from the Federal Agency for Youth Affairs (Rosmolodezh)



EVENTS

- Student research and practice conference "The First Steps in Profession"
- Student research conference "Young Researchers for Innovative Development of the Society (World)"
- All-Russian Scientific Forum of Young Researchers "Social and Humanitarian Issues of Education, Fashion and Design "Social Engineer"



CREATIVE EVENTS

- The university qualifying championship "Young Professionals (WorldSkills Russia)" according to WorldSkills standards
- The Tochka RU All-Russian Design Festival
- The Shoes-Style International Shoes and Accessories Design Competition
- The Moscow Creative Work Competition "Decorative and Applied Arts and Design"

VOLUNTEER TEAMS

- Familiarization of international students with the city
- Assistance in dormitory accommodation, settlement, and solution of daily life problems
- Assistance in adaptation to a new environment: volunteers instruct newcomers, tell them about student life, the places where they can change money, buy food, how to get to different educational buildings
- Support during studies—you can always contact volunteers with any questions, ask for advice and help

vk.com/donskay39

INTERNATIONAL CULTURE CLUB

- Cultural exchange and overcoming a language barrier
- Mass cultural events
- International academic and creative activities

vk.com/rsu_international_culturel











Nuneh Antwan, Syria. First-year PhD student, Art History



The university offered me, a foreign national, all necessary conditions for personal

development. During my studies, I've taken part in over 30 research and practice events. I've published 12 academic papers and received ten awards in all-Russian and international contests. This experience has enriched my knowledge. RSU has offered me an array of research opportunities.

Isidora Despich, Serbia. Second-year Bachelor's



l've been living in the dormitory on Leninskiy Avenue for three years

student, Psychology

already. We have a good gym and study room. Sometimes the guys hold movie nights or chess and table tennis tournaments. The dormitory life can be full of events! Our dorm is conveniently located: not far from the metro and center, in a quiet district. I like living here!

-66-

Iskander Aydynov, Turkmenistan. Fourthyear Bachelor's student, Information Systems and Technologies



Our classes are exciting.

Convenient class schedules allow me to work in my degree field, which brings me extra money. I design websites or separate blocks for different companies. The knowledge I gain here often comes in handy. I'm so thankful to my teachers for their work and contribution to our future.



Valery Belgorodsky Rector, Professor, Doctor of Sociological Sciences

"The choice of an educational institution and future profession is one of the most complicated decisions in your life.

After entering our university, you will gain new knowledge, attend lectures delivered by eminent scientists and Honored Workers of Education and Culture whose research papers and monographs are issued in various languages. Informative master classes in state-of-the-art classrooms, up-to-date academic programs, internships and work placements at the top enterprises in Russia and other countries—that's what we have in store for you. You will do research in state-ofthe-art laboratories. Here you will find good and loyal friends, wise and experienced mentors, and become real professionals in your field. Keeping up with the pandemic realities, you can apply and take creativity exams online.

Definitely, you will lack a real university tour and communication with teachers, but our professors and candidates of sciences will become your guides to the university environment. I am sure that you will overcome all the challenges and become a part of our big but close-knit family. You will join many thousand people in our team and become students of RSU named after A. N. Kosygin, one of the best Russian universities."



BACHELOR'S PROGRAMS

28 MASTER'S PROGRAMS

PHD PROGRAMS

> 250

CONTINUING

PROFESSIONAL

EDUCATION PROGRAMS

Orenburg

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FACULTIES

11,000

STUDENTS

BRANCHES

SCIENTIFIC SCHOOLS

2,2 FOREIGN STUDENTS from 70 countries

SPECIALIST'S

PROGRAMS

The university provides training in all areas of the oil and gas industry: from exploration, extraction, transportation, processing of oil and gas, creation of technology and information support for engineering processes to studying economic and international aspects of the oil and gas market.

Tuition fees per year 300,000-400,000 RUB



The university is consistently ranked among the leaders by employer demand for graduates according to Expert RA



14 Engineering and Technology

10 Demand for Graduates in Natural Sciences and Mathematics



among 74 Russian universities

553 among 829 universities from 71 countries



top 100 in Russia

💌 Video about the university

Tashkent, Uzbekistan 🚞

vk.com/gubkin.university

f facebook.com/watch/Gubkin.University instagram.com/gubkin.university

Moscow, Russia



Faculties' Virtual Doors Open Days

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JOINT MASTER'S DEGREE PROGRAMS

- Offshore Field Development Technology University of Stavanger, Norway
- Advanced Well Construction and Operation Technologies Leoben Mining University, Austria
- Energy-Saving Technologies for Gas Transportation Systems
 KTH Royal Institute of Technology, Stockholm, Sweden



INTERNATIONAL COOPERATION

The university is a member of 23 Russian and international associations.





PREPARATORY DEPARTMENT

Subjects:

- Bachelor's programs
 Russian Language, Mathematics, Physics, Chemistry, Informatics
- Master's and PhD programs Russian Language, Further Mathematics, Informatics

After completing the course, students take final exams.

Duration 1 year

Tuition fee 220,000 RUB

International Students Office

🖂 dis@gubkin.ru



HOW TO GET INTO GUBKIN UNIVERSITY

- Within the quota of the Ministry of Science and Higher Education of the Russian Federation.
 You can get the information about quotas at the Russian House's representative office in your country of residence
- On a fee-paying basis. Applicants take exams in Mathematics and Russian Language





How to apply to Gubkin University

ADMISSION OFFICE

Head of the International Students Office Alexander Shcherbina

- 😫 +7 499 507-91-85
- 🖂 shcherbina.a@gubkin.ru

INFRASTRUCTURE

- Campus: 5 buildings, 4,176 places
- 2 recreation camps in the Tver Region and the Crimea

ARRIVAL

Visitors are taken from the airport to the city by

- Aeroexpress trains 300—400 RUB
- 👄 🛛 🗛 🖚 🖚 🖚 🖚 🖚 🖚 🖚 🖚

Metro is the fastest and the most comfortable transport in the city. The fare is 60 RUB per trip.

It is easy to get to the university, so students arriving in Moscow are met at the university at the address: **65, Leninsky Prospekt, bld. 1, Moscow.** The Akademicheskaya metro station.

Upon arrival, foreign citizens receive comprehensive visa support, but they must get health insurance themselves.

All foreign students are accommodated in the university campus—the comfortable dormitories. Each room accommodates 2-3 persons. The accommodation fee is around 20,000 RUB per year.

ADAPTATION

- Integration of foreign citizens into the university environment
- Strengthening interethnic relations between students
- Socialization of foreigners at the university
- Increasing knowledge about Russian culture, familiarization with Russian customs, national values and traditions

EVENTS

- Traditional and innovative events aiming to transfer knowledge about values and traditions of Russian culture
- Creative events allowing students to show their national cultures and containing information about their peoples

SECURITY

The university's security service ensures 24/7 security at the university and dormitory. All students get special access cards to enter the university and campus through special turnstiles.



FACULTIES



SCIENCE

Under the supervision of the university's Professors and research fellows, students have an opportunity to study as a member of the Student Scientific Society, take part in Russian and international conferences, publish their research findings in scientific journals of Russia and other countries.

RESEARCH AND ACADEMIC SCHOOLS

ACADEMIC AND RESEARCH

LABORATORIES



TRAINING CENTERS

GUBKIN UNIVERSITY SPE STUDENT CHAPTER

The student chapter of the Society of Petroleum Engineers (SPE) was established to integrate university students into the international scientific and professional environment.

Joining SPE Student Chapter, students get information about upcoming conferences and forums. e-journal subscriptions, free language clubs, workshops, and other opportunities.



vk.com/gubkin_spe

- Petroleum Geology and Geophysics
- Oil and Gas Field Development
- Design, Construction and Exploitation of Pipeline
- Transport Systems
- Mechanical Engineering
- Automation and Computer Engineering
- Integrated Security of the Fuel and Energy Complex
- Chemical and Environmental Engineering
- Economics and Management
- International Energy Business
- Law









INTERNATIONAL FRIENDSHIP CLUB

The Club has a longstanding tradition of uniting Russian and foreign students.

The social youth organization familiarizes students with the culture and creativity of various peoples in Russia and foreign countries. The Club works with 22 fellow countrymen associations established at the university. At the beginning of an academic year, they find "their" guys on the list of enrollees and help first-year students adapt to the university and Russia.

The Club holds various countries' culture days, celebrates national festivals.

The Week of National Cultures is an annual event aiming to improve the relationship between the university's ethnic groups. The program includes a photo show of the unique sights of various nations, a quest game, the Guess a Movie contest, an exhibition of national costumes, national cuisines, and a gala concert.

JOINT COUNCIL OF STUDENTS

Here you will find up-to-date information about university life.

💌 vk.com/osogubkin





GUBKINETS PALACE OF CULTURE

Pushkin Ball, Intellectual Marathon, the Club of the Funny and Inventive, Parliament Debates, and other events.

Creative projects help students develop the teamwork and leadership skills they need for a successful career.



🌐 dk.gubkin.ru





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Rama Ghazala, Syria

I obtained my degree in Damascus. When I studied in Syria, I only got the highest scores, so I was invited to study Russian in Nizhny Novgorod. After completing the course, I embarked on a PhD degree at Gubkin University, where I do exciting research in geology. My country highly values my work. After completing my PhD degree, I will work for an oil company in Syria. They are already waiting for me.

I live on campus so far. Though I have little spare time, I take part in university events with great interest.

It's so interesting to live in Russia. That's quite a different world. I used to see the snow like in Moscow winter only in the fridge. In the beginning, everything seemed strange to me, but now I like Russian winter, beautiful fall, joyful spring, and even summer! Here it's different, always green, with lots of pleasant summer rains, which makes admirable Russian nature even more beautiful.



Kolo Kader Sekongo, Côte d'Ivoire. Fourthyear student, Faculty of Oil and Gas Field Development

"

I chose this field of study as the education obtained will make me a sought-after specialist in my country's petroleum industry.

Before I entered the university, I had been studying Russian and other subjects for a year. That time was exciting.

Moscow has lots of noteworthy museums and other buildings. I'll always remember my first visit to the metro. I saw the metro in Paris, but metro stations in the center of Moscow look like beautiful palaces faced with the stone of different types. I could never imagine that!

I have a lot of friends at the university. My fellow students from Gubkin University will probably be my colleagues when I work for an oil company. In my country, it's customary to keep our alma mater in our memory and help each other.







BACHELOR'S PROGRAMS

SPECIALIST'S

PROGRAMS

59 RESIDENCY PROGRAMS

PHD PROGRAMS

DISSERTATION COUNCILS for 27 specialties

MASTER'S PROGRAMS

> 8,000 STUDENTS. including > 700 international students from 50 countries

2,100 RESIDENTS AND PHD STUDENTS

RNRMU is a leading research and education center that trains physicians, pharmacists, clinical psychologists, social workers, as well as unique academic personnel for medical biochemistry. medical cybernetics, medical biophysics.





Bachelor's and Specialist's programs 280,000-460,000 RUB

Master's programs 130,000-220,000 RUB





Those who passed the Unified State Exams get discounts depending on the score

instagram.com/rnimu 2med

💌 vk.com/rnimu

facebook.com/rnimu2med



Virtual Doors Open Days



Admission of foreign citizens

1001+

Overall ranking

351+

Emerging

Economies

Life Sciences

43

Good Health and

Well-Being







601+ Clinical, Preclinical & Health



451-500 Medicine

Moscow, Russia

RNRMU is listed among international **IELTSrecognizing** organizations. It has exclusive rights to hold **IMAT** (International Medical Admissions Test, Cambridge) and **BMAT** (BioMedical Admissions Test) in Russia and CIS countries.

STATE-FUNDED PLACES

- Citizens of Belarus, Kazakhstan, Kyrgyzstan, Tajikistan
- Citizens of Armenia, Uzbekistan, Ukraine, Moldova, Turkmenistan, Georgia permanently residing in Russia (having a Russian permanent residence permit)
- Compatriots living abroad
- Within the quota allocated by the Ministry of Science and Higher Education of the Russian Federation

Foreign citizens applying for programs using a mediator language may optionally take separate entrance exams in English held by RNRMU independently.

Before entering Russia, international students should:

- Get an invitation
- Get a visa (if necessary)
- Get health insurance
- Buy the tickets to Russia

It is recommended that students arrive in Moscow one or two days before classes start.

ADMISSION OFFICE

Executive secretary Nadezhda Bylova

- 🔇 +7 903 763-13-97
- 🖂 prk@rsmu.ru
- 🖂 n_bylova@mail.ru
- 1, Ostrovitianova Street, Moscow, 117997





INFRASTRUCTURE

- Training center
- Medik Campus
- Bogorodskoe university hotel
- Research library
- Clinical facilities at hospitals and outpatient clinics
- Sports complex
- Konakovo student camp

DORMITORIES

- 3,280 places in four 18-story dormitory buildings located ten minutes' walk from the main university building and Konkovo metro station
- Students are met by the dormitory staff member who helps them with accommodation, necessary documents and gives an initial briefing

CLUSTERS

- East-European Research and Education Medical Cluster
- Yuzhny Moscow Cluster of Medical Technologies

VISA AND MIGRATION SUPPORT GROUP

Head George Bespalyuk 🕲 +7 495 434-10-44 🖂 visacontrol@rsmu.ru



INTERNATIONAL FACULTY

- RNRMU's educational programs for international students
- Double degree programs, delivered jointly with the EU partner universities, for Russian and foreign citizens

The programs are taught in English, or English is used as a mediator language.

Preparatory courses for foreign citizens

- Crash course 4 months, from February
- Complete course 10 months, from October

Subjects: Russian language (general linguistic course and terminology), chemistry, physics, mathematics, biology

The language of instruction is Russian (with English used as a mediator language)

Tuition fee 145,000 RUB, 290,000 RUB

Required documents:

- Personal application
- Originals and copies of academic credentials with a notarized translation into Russian
- Medical certificate confirming the absence of medical contraindications to studying in Russia

Dean Nadezhda Bylova

- 💐 +7 495 434-22-66, ext. 23-60
- 🖂 ims@rsmu.ru

YOUNG SURGEON SUMMER SCHOOL

As part of this unique educational project, students try their hand at surgery, medical genetics, neurology, dentistry, IT genetics, pharmacology, medical cybernetics, and other medical specialties.

- Interactive immersion in the modern health professional's work
- Familiarization with innovative solutions in medicine
- Building practical skills using state-of-the-art diagnostic, therapeutic and surgical equipment, doing personal research

INSTITUTE AND LABORATORIES

- Research Institute of Translational Medicine
- Research Institute of Clinical Surgery
- Pirogov RNRMU Research Center of Ophthalmology
- Russian Clinical and Research Center of Gerontology
- Research and Clinical Institute for Pediatrics named after Academician Yuri Veltischev
- Research Laboratory of Biomedical Research in Neurology
- Research Laboratory of Glaucoma and Corneal Dystrophies
- Research Laboratory of Rheumatic Diseases
- Research Laboratory of Cerebrovascular Diseases

FIELDS OF STUDY

- General Medicine
- Biology
- Pediatrics
- Dentistry
- Medical Biochemistry
- Medical Biophysics
- Medical Cybernetics
- Clinical Psychology
- Social Work
- Pharmacy

ACADEMIC MOBILITY

💳 Armenia 🔚 Belarus 🔝 Brazil 💌 Vietnam

Israel II Italy Kazakhstan
 Slovenia
 Portugal
 Uzbekistan
 Japan

- Academic exchange programs for students, residents and PhD students (internships, study placements, work placements)
- Visits of foreign teachers and researchers

ENGLISH-TAUGHT PROGRAMS

- General Medicine
- Biology
- Dentistry

DOUBLE DEGREE PROGRAMS

Specialist's program

General Medicine
 University of Perugia, Italy
 University of Milan, Italy

 Abu Ali ibn Sino Bukhara State Medical Institute,
 Uzbekistan

Bachelor's program

• Biology (Biomedicine major) University of Turin, Italy

Applicants must take a BMAT or IMAT entrance test.

STUDENT SCIENTIFIC SOCIETY

> 80 student scientific circles: pediatrics, therapeutics, fundamental sciences, surgery

💌 vk.com/sno_rnrmu

GRADUATION AND GRADUATE EMPLOYMENT PROMOTION DEPARTMENT

Head Valentina Steblina

+7 495 434-76-01, ext. 01-27

🖂 ovo@rsmu.ru, steblina_vm@rsmu.ru

SUPRA-PROFESSIONAL SKILLS SECTOR

- Training center
- Media school
- Collaborating center

Soft skills development: workshops on motivation, leadership, management, teamwork, time management, presentation skills, personal enhancement.

CHEM*BIO*PLUS SUPPLEMENTARY EDUCATION SCHOOL

- Supplementary educational programs in chemistry, biology, physics, and mathematics for senior high school students
- Lectures, colloquia, computer tests, and practical classes in the university laboratories
- Preparation for participation in Moscow, interregional and all-Russian school student Olympiads







STUDENT COUNCIL

12 public activity areas:

- Art and creativity
- Volunteer center
- Student Scientific Society
- Student trade union
- Tutor school
- Council of communities and others
- vk.com/studentsrnrmu

TUTOR SCHOOL

- Tutor for an academic group (assistance in adaptation to the university life)
- Academic tutor (assistance in mastering new course content)
- Tutor for international students (assistance in socio-cultural adaptation)
- vk.com/rnimu pirogov tutors

COUNCIL OF COMMUNITIES

- 20 national associations fellow-countrymen associations, clubs and communities
- Popularizing various countries' cultures and strengthening international friendship
- vk.com/zemlyachestva_rnimu





Rahman Sheikh Sabih. **Bangladesh. Fourth-year** student

Before applying to the university, I asked around, looked through testimonials about universities. I decided on RNRMU, and I don't regret it.

I like studying here. I noticed that much depends on the teacher. If they can get you interested, the subject becomes really exciting, and you'll try to study hard. Physiology and physiopathology, microbiology were very interesting. I also have a hobby—I am fond of history.

I have tentative plans to choose virology and bacteriology as my future specialization. Now we have cycle training, and I choose the disciplines I like more.

In my spare time, I meet my fellow students, go to the gym.

I'd like to become a good doctor and work at a high-profile clinic, but, most of all, be of use to people. There are things that are much more important than material wealth. Health and life are priceless, and money comes and goes.







RNRMU volunteers

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Ait Aissa Jelal-Eddin, Algeria. Fourth-year student

I chose medicine because the medical profession really allows us to help people.

When I was choosing a university, I decided on two universities with medical faculties: RUDN and RNRMU. I was sent to RNRMU. And I've never regretted it.

In my studies, I like the systematic program. The department of biochemistry offered us a list of issues to study. And we strictly adhere to the curriculum. I have no language barrier while studying academic disciplines, quite the contrary. It's easier for me to perceive medical information and talk about science.

I also take part in the university's extracurricular projects. I've recently joined a rescue team. They teach us to give first aid in accidents. Besides going to university, I work as a male nurse at an outpatient clinic.

As to my specialization, I'll probably choose surgery. Anatomy comes easily to me. My goal for the future is to make a personal contribution to science. Certainly, I must study hard and spare no pains in my work.





Tabasom Ahmadi, Afghanistan. Fifth-year student

When I came to apply to RNRMU, the admission office staff were so nice to me and told me about everything I was interested in at that time, and I decided to stay here.

I like studying medicine very much. The clinical disciplines that we've been mastering since our third year are particularly interesting. But then the pandemic broke out, and, unfortunately, we had to miss some courses. Our teachers' high proficiency comes to help. Even during online classes, they try to convey all necessary information to us.

I study at the international faculty and major in General Medicine. I've realized that I don't want to be a surgeon. I like therapeutic specialties more, but I haven't decided yet which one to choose. Now I attend classes of the neurology scientific circle. I am interested in this discipline and its issues. I'll probably choose this major in the future.

I've never regretted entering RNRMU. Even in my third year, when I had a hard time mastering the program and coping with an array of information, I never had any doubts about my choice.



INTERVIEW with graduates and students of double degree programs







MENDELEEV UNIVERSIT **OF CHEMICAL TECHNOLOGY OF RUSSIA**

ET IT IT

29 BACHELOR'S AND SPECIALIST'S PROGRAMS

vk.com/dmuctr

instagram.com/dmuctr

facebook.com/muctr

MASTER'S PROGRAMS

6,720 STUDENTS

youtube.com/c/MendeleevUniversity

INTERNATIONAL STUDENTS from > 40 countries The largest academic and research chemical engineering center. University graduates hold leadership positions in science and production, at government agencies, in small and large business.

> **Tuition fees per year** full-time studies Bachelor's programs 230,000 RUB Specialist's programs 256,000 RUB Master's programs 274,000 RUB



Founded in 1898

University website www.muctr.ru



257 in the world Natural Sciences

Moscow, Russia



Choose a profession

ຊບຊ 🛈 ຊບຊ

448 in the world Engineering Sciences



CONTINUING

EDUCATION

PROGRAMS

Ask guestions about admission





25 among the best Russian universities



FACULTIES

- Digital Technology and Chemical Engineering
- Petroleum Chemistry and Polymeric Materials
- Technology of Inorganic Substances and High Temperature Materials
- Chemical and Pharmaceutical Technologies and Biomedical Products
- Biotechnology and Industrial Ecology
- Chemical Engineering
- Natural Sciences
- Humanities

INSTITUTES

- Materials for Modern Energy and Nanotechnology
- Chemistry and Problems of Sustainable Development (UNESCO Department of Green Chemistry for Sustainable Development)

COLLEGE

• Higher Chemical College of the Russian Academy of Sciences

PROMISING AREAS

- Chemistry
- Chemical Engineering
- Biotechnology
- Nanoengineering
- Ecology
- Information Technologies

CONTINUING EDUCATION

Students can get a continuing education certificate after completing the professional retraining and advanced training programs. For example, Translator/Interpreter in the Sphere of Professional Communication; University Teacher of Chemistry; University Teacher of a Foreign Language.





PREPARATORY DEPARTMENT

- The cycle of intensive Russian language courses for international students
- The basics of general subjects within the future major: chemistry, physics, mathematics, descriptive geometry
- Adaptation to student life
- Acclimatization of students
- Training center
- Russian language courses for international students

Duration 1 year

Tuition fee 153,000 RUB

Ilya Shlykov

- 🔇 +7 499 978-87-00
- 🖂 ilyashlykov@muctr.ru



Russian universities. Mendeleev University



ADMISSION REGULATIONS

To enroll in **fee-paying places**, applicants must only have their documents recognized or successfully pass Unified State Exams or entrance exams.

Applicants who retain citizenship of one of the former Union Republics may be eligible for **state-funded places** on equal terms.

Applicants who left as a part of their family and did not retain citizenship of Russia or Union Republics may be **eligible for state-funded places as compatriots living abroad**. They can just submit originals or notarized copies of the following documents:

- Mother's birth certificate
- Document confirming the fact of her residence in the USSR in the past, marriage certificate
- Applicant's birth certificate

SCIENCE

The university's scientists develop unique technologies and new materials for high-technology sectors of the Russian economy and militaryindustrial sector. The university's science topics cover almost all areas of chemistry, chemical engineering, petrochemistry, biotechnology.

The university conducts research in cooperation with scientists from the UK, Germany, France, Japan, Italy, Spain, Iceland, Netherlands, Switzerland, China, Chile, Libya, Finland, Czech Republic, Egypt, Korea, Yugoslavia, Poland, Syria, Tunisia.



Mendeleev Business Academy offers projectbased training for middle and top managers working in the chemical industry. The business accelerator works collaboratively with development institutions as well as associations and corporations of manufacturers and entrepreneurs, ensuring a full cycle of startup development until the startup enters the market.



Joint programs implemented in collaboration with Lomonosov Moscow State University and Bauman Moscow State Technical University

EMPLOYMENT

Regarding job search, feel free to contact us at i praktika@muctr.ru.

CAREER DEVELOPMENT CENTER

The service that promotes student and graduate employment.

💌 vk.com/public130499187





Job openings can be filled by both university graduates and senior students if they have enough time for work.

Job openings

INTERNATIONAL COOPERATION

> 100 universities and organizations from 35 countries

- P. D. Sarkisov International Laboratory of Glassbased Functional Materials. Specialists from Japan, Italy, Germany, the USA, France, Belarus are invited to work at the laboratory.
- International Training and Research Center for Transfer of Pharmaceutical Biotechnologies

Academic mobility increases every year: students and PhD students go abroad to pursue exchange programs, do graduation and PhD theses, undertake internships and study placements, participate in conferences as well as sports and cultural events.

PARTNER ORGANIZATIONS



Mendeleev University establishes laboratories, competence centers as well as branches in the regions with well-developed chemical industries both in Russia and abroad.



Bachelor's program

- Chemical Engineering
- Technosphere Safety
- Materials Science and Engineering
- Artistic Materials Processing Technology

CAMPUS

- Total area is 3.7 ha
- Administrative and educational buildings
- Laboratory
- Lecture hall
- Library
- Assembly hall
- Canteen
- Gym

Master's programs

- Materials Science and Corrosion Protection of Materials
- Chemical Engineering of Nanomaterials
- 41, Mirzo Ulugbek street, Mirzo-Ulugbek District, Tashkent, Uzbekistan
- +7 499 998-978-59-60
- 🔇 +998 99 784-93-44
- 🔇 +998 99 644-52-38
- 🔇 +998 97 598-45-20
- 🔇 +998 97 330-80-31
- 🖂 priemuz@muctr-tashkent.uz
- muctr-tashkent.uz



CAMPUS

- 3 dormitory buildings
- Culture and sports center
- Self-preparation rooms
- Storage rooms for bicycles and prams
- Library
- Canteen
- Assembly hall

LEISURE

The atmosphere of creativity reins within the university walls: festival shows, the Club of the Funny and Inventive teams, the wind band, the choir, the Anomalia student club, and Irina Arkhipova's musical lounge.

Students can devote their leisure time to sports, including track-and-field, skiing, football, volleyball, aerobics, wrestling, badminton, mountaineering.



SECURITY

University and dormitory security is ensured 24/7. All students get electronic access cards. Floors and territory are patroled by the student squad. There is a video surveillance system.











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A second-year Master's student

Why did you decide to become a chemist?

I decided to become a chemist because I like doing research and discovering something new, for example, a cure for cancer.

How do you assess the current situation in your country's chemical industry? What contribution to the industry development are you ready to make after graduation?

In my country, there are a lot of chemists specializing in various areas. They are predominantly employed at highly profitable companies, as well as hospitals. I hope I'll be able to discover something new that will help my country to shoot ahead.

Please tell us about your impressions of Russia. Do you feel comfortable here?

I feel at home here. It's quiet and peaceful everywhere. I can walk along the street at any time of the day. I like Russia and Russians. They are the most amiable people in the world.

What would you recommend or suggest for your compatriots planning to study at Mendeleev University?

I'd definitely recommend that my young compatriots get chemical education in Russia. There are well-equipped laboratories here. Teachers are always ready to help students. And, most importantly, Mendeleev University trains true professionals in their field.





ENTERING A UNIVERSITY AND STUDYING DURING PANDEMIC

The complicated global situation caused by Covid-19 spread has lead to the increase in the popularity of online learning. With travel options between countries being restricted, this format has become the only way for the majority of international students to apply and receive top-quality education at Russian universities. Here is how this process is organized at Moscow Aviation Institute.

DOORS OPEN DAY

Universities have adapted to the forced restrictions and are now able to offer remote communication options to the applicants and the students. At MAI, the international students are provided with high-quality recordings of lectures, intensive practical seminars as well as feedback. Teachers and curators from the University's International Department are involved in the communication. For the second year in a row, MAI's International Department has been organizing a series of online Doors Open Days in Russian and English. These events allow the foreign applicants to talk to the management, teachers, students and graduates, learn more about the University, admission rules and new possibilities.

ADMISSION

The application process can be carried out online: international applicants submit their documents via an account at the University website, take the entrance exams online, pay tuition via MAI's internal payment system. These time-saving technologies have been used at Moscow Aviation Institute long before the pandemic.

ACCOMMODATION

Since the travel restrictions have been partially lifted MAI has implemented several additional measures. Currently, a dormitory accommodation is allowed after a medical check-up at MAI's resort. The physician will require the following documents:

- negative Covid-19 test (valid for 72 hours)
- or a vaccination certificate (the vaccine must be state-approved in the Russian Federation)
- or a certificate stating that the applicant has had a disease caused by Covid-19 within the last 6 months plus a positive Covid-19 antibody test

STUDYING

The educational process in the 2020/2021 academic year has also been carried out online via the LMS MAI platform (Learning Management System). Based on the experience of the world's best online platforms, LMS MAI has been significantly improved and its interface has been adapted to international students' needs.

Moscow Aviation Institute is one of the few Russian institutes and universities that offer educational programs in English. The educational platform for studying in English provides the learners with valuable educational content and numerous interactive functions: access to pre-recorded lectures, the seminar and laboratory classes schedule that is convenient for everyone, the teachers can keep attendance records, include additional content in the courses, carry out control tests.

GEOGRAPHY OF THE STUDENTS

Speaking about the admission campaign results of the last year, most international students at MAI come from China. This is mainly due to the development of the double degree program in cooperation with China's best universities (currently MAI partners with 6 universities in China). Next up is Kazakhstan which has been keeping the leading positions for several years, one of the reasons being a Baikonur-based branch of MAI. Uzbekistan comes third which shows a rapid increase—over the last five years, the amount has grown almost fivefold. Next follow Malaysia and Vietnam—a stable high amount of admissions from these countries is explained by long-time cooperation with local partner universities. It is worth pointing out that Bosnia and Herzegovina, Portugal, Kuwait, Republic of Maldives have joined the list of the countries that MAI's international students come from.

Alexey Zarechensky, Deputy Head of International Department of MAI



The new circumstances that have affected all of

us in 2020—the pandemic, closed borders, uncertainty—have forced us to completely change the format of attracting and admitting international applicants. Foreign nationals do not always have the option to come to Russia in order to visit the university, and with the borders being currently closed this has proved impossible.

The Doors Open Days at MAI have always been carried out at the highest level, and it is important for us to keep the high standards in the online format as well. We have made it possible to introduce Moscow Aviation University to the international applicants, capture the interest of those with high levels of knowledge who are motivated to study here. In short, those who have chosen MAI.





EMPLOYMENT OPPORTUNITIES FOR INTERNATIONAL STUDENTS

All students have an opportunity to combine their work and study. However, this right used to be somewhat restricted for foreign nationals. To eliminate this injustice, the Russian government decided to simplify the employment procedure for foreign nationals last year. According to new regulations, international students may get a job in Russia without a special permit or patent, legally work during their free time.

LEGAL GROUNDS

Only adult students above 18 studying full-time and attendees of preparatory departments can enjoy this right. This law does not apply to extramural students.

Let us see what has changed in the Russian legislation^{*}.

- 1. The field of labor activity international students could engage in used to be limited by professions specified in their work permits (WP). If an employee was engaged in any other activity, their employer had to pay the fine. Now, when work permits are no longer required, international students can be engaged in any activity without any sanctions.
- 2. Before the adoption of amendments to the law, work permits and labor agreements were issued for one year. Today the agreement term is only limited to the period of students' study at their educational institution. In other words, when you stop studying for any reason, your labor agreement is terminated.

The law says that international students studying at state-accredited Russian universities are exempt from the requirement of a paid work permit if they:

- Work while on vacation or undertake internships
- Work in their free time at their educational institutions and all their structural units as an ordinary employee
- Students from member states of the Eurasian Economic Union (Armenia, Belarus, Kazakhstan, Kyrgyzstan) do not need a work permit at all

International students may work at universities

without any restrictions according to Russian labor legislation if they comply with migration regulations.



In all other cases, **international students find jobs at companies and other organizations** when they independently contact the Ministry of Internal Affairs' authorities for a work permit.

All you must do first for concluding a labor agreement or civil law contract with your employer is submit a certificate from the university or college confirming that you study there. If the company says that you must show your work permit first to sign an agreement, they are mistaken as this is contrary to law.

Getting a WP takes a couple of weeks and will cost several thousand rubles (stamp duty and medical certificates). First, you must submit your documents for review and do tests for certificates. Then, if necessary, you must bring the lacking certificates and revised documents, and, finally, get your permit.

* Article 13 of the Federal Law "On the Legal Status of Foreign Citizens in the Russian Federation"



95

GETTING A WORK PERMIT

To get a work permit, foreign citizens studying in the Russian Federation, when applying for a job at the company, submit the following documents:

- Work permit application
- Passport and its notarized copy
- Migration card and its copy
- Registration at the place of residence and its copy
- Full-time study certificate issued by the educational institution
- Original labor agreement or civil law contract for the execution of work (provision of services)
- Certificate confirming the absence of dangerous diseases (HIV and others). The certificates will cost 3,000 RUB on average. You can get them at any clinic (check the information in advance)
- Stamp duty payment receipt (the duty is 3,500 RUB on average)
- You will probably need a VHI policy and a 3×4 cm color photo (check the information in advance)

After submitting all documents to the Federal Migration Service authorities, international students get their WP in ten business days. The permit is issued for one year, and later you must extend it for the period of your labor agreement. If you drop out of university, your permit is canceled. If you change your job before your current permit expires, you can do another job according to this document, but you must inform the Russian migration service of the changes within one week.

You can ask any questions about the document execution and submission procedure, seeking advice from the Ministry of Internal Affairs in your region on their website.

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Firstly, foreign nationals must not work as chief accountants or hold any other positions related to accounting. Only foreigners having a permanent residence permit or a temporary residence permit are allowed to keep accounting records at a Russian enterprise. Secondly, foreign nationals must not serve as municipal or government officials and get any job related to the security of Russia.

The list of institutions where students may work in their free time is limited. However, the list of organizations that may employ students while on vacation is not limited. In any case, given that many students from abroad study in Russia on a fee-paying basis, such side jobs are a great way to partially cut costs.

hedclub.com

A PATH TO EMPLOYMENT

You can get all the up-to-date information about job openings at the university's special division responsible for employment. These can be career centers, human resources management centers, and other departments.

They organize career and educational and recruiting events involving employers: seminars, master classes, workshops, job and internship fairs, round table discussions.

The most reliable path to good employment for a young specialist often lies through internships or work placements at the place of their future job. Experts advise students to pay attention to this type of cooperation with companies. After all, there are huge internship opportunities today, but not all young people are aware of them. Attend job fairs and be friends with career centers available at each institution. Such structural units at universities help students properly plan and build their career paths. Your pro-active attitude can make your resume solid or help you find a suitable job while studying. Be sure to take this opportunity!



In our previous issues, we wrote that you should take a serious approach to the choice of an educational program and university and ask about possible career opportunities. For example, international students of Siberian Federal University's School of Petroleum and Gas Engineering gain experience at major oil and gas enterprises. The best graduates can get a job there in the future.

Since 2016, SibFU's School of Petroleum and Gas Engineering has been offering an English-taught Master's program in Petroleum Chemistry and Refining. The program is popular with students from all over the world. It enrolls students from Colombia, Nigeria, Ghana, Ecuador, Burkina Faso, Djibouti, Taiwan, Indonesia, Tunisia, Iraq, Qatar, Egypt, and Uzbekistan. This program is so popular because students gain solid theoretical knowledge and also consolidate theory in practice.

Thanks to the state-of-the-art laboratory equipment of the Institute and close cooperation with Rosneft Oil Company, students have an opportunity to gain advanced knowledge and experience that meet global trends in the oil and gas industry. In particular, students must undertake a two-week internship at Achinsk Oil Refinery, where they are taught to refine oil and obtain a final product by visual demonstration.

Besides, students gain practical knowledge and experience at a petrochemical enterprise — Krasnoyarsk Synthetic Rubber Works (SIBUR). It manufactures high-quality nitrile butadiene rubbers. Regularly going on enterprise tours, students can see for themselves how machines and equipment they know from textbooks or Internet videos work. Talking about employment, SibFU proudly says that partner enterprises and other oil and gas companies highly value students of its School of Petroleum and Gas Engineering. For example, one of our best students, a Colombian citizen, works as a chief engineer at the international AKROS Oilfield Services Company with an opportunity to consolidate his oil extraction skills in Russian oil fields.

Gaining production skills is an invaluable experience for graduates of this program. That is why oil companies know that a degree obtained from SibFU's School of Petroleum and Gas Engineering proves that its holder is highly qualified and professionally competent.



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