

# Moscow Institute of Physics and Technology



Year of foundation: **1951**



Total students: **6 942** / Foreign students: **680**



Faculties: **11** / Departments: **146**



Teachers: **1 906**

Professors  
**53**

Associate Professors  
**134**

Doctors of Science  
**72**

Candidates of Science  
**246**

Foreign teachers  
**21**



Main educational programmes for foreigners: **12**

Bachelor's programme  
**4**

Master's programme  
**7**

Specialist programme  
**1**

Training of highest qualification personnel



Additional educational programs for foreigners: **1**

Pre-university training programmes

Russian as a foreign language  
**1**

Short programmes

Other programmes

MIPT (Phystech) is a leading Russian university specialising in the field of physics, mathematics and related disciplines. The Institute is located in Dolgoprudny (5 km away from the outskirts of Moscow). Some of the buildings and departments are located in the Russian capital and the city of Zhukovsky (40 km away from Moscow).

The main features of MIPT is the so called Phystech System, which ensures the training of high-level specialists that are in demand across fundamental research areas worldwide.

There are 6 phystech schools at MIPT. One of the most popular fields among applicants for enrolment to MIPT is applied mathematics and physics.

## Basic areas of study:

- Systems analysis and control.
- Information science and computer technology.
- Computer security.
- Applied mathematics and information science.
- Applied mathematics and physics.

MIPT is in the top 350 in the QS World University Rankings and the top 135 QS WU Rankings by Faculty in Natural Sciences. In 2015, the legendary Russian university Phystech was ranked 101-150 in the Shanghai Academic Ranking of World Universities by Subject Fields in Physics.

## Student successes

MIPT graduates include two Nobel Prize winners, over 150 members of the Russian Academy of Sciences, including the President and Vice President of the Russian Academy of Sciences, over 6000 Doctors of Sciences, and around 17,000 Candidates of Sciences.

## Famous graduates

<b>Vladimir Fortov</b>	Soviet and Russian physicist. Professor of Physical and Mathematical Sciences. President of the Russian Academy of Sciences.
<b>Andre Geim</b>	Soviet-born physicist, Nobel Prize Laureate in Physics 2010, member of the Royal Society of London. Co-discovered graphene with Konstantin Novoselov . Awards: Copley Medal (2013), Hughes Medal (2010), John Carty Award (2010), Körber Prize (2009), Europhysics Award (2008), Mott Award (2007)
<b>Alexander Lemanskiy</b>	Russian designer of rocket technology, the chief designer of the "S-400" Triumph system. Professor of Technical Sciences. "Merits to the Fatherland" Medal, IV degree, awarded posthumously (February 21, 2008) Merited Scientist of Russia.
<b>Konstantin Novoselov</b>	Russian physicist. Nobel Prize Laureate in Physics in 2010 (together with Andre Geim), member of the Royal Society of London. Awards: Nicholas Kurti European Science Prize(2007), The International Union of Pure and Applied Physics Young Scientist Award (2008), Europhysics Award (2008), Knight Bachelor (2012), Leverhulme Medal (2013 ), Onsager Medal (2014)
<b>Vladimir Pentkovsky</b>	Outstanding Russian-American scientist, State Prize Laureate, one of the developers of the Elbrus supercomputer and high-level programming language AI-76.
<b>Vladislav Repin</b>	Scientist and constructor, founder of the Soviet and Russian strategic missile and space defense systems. The first (1970 - 1987) chief designer of the Missile Attack Warning System and the Space Control System, Hero of Socialist Labor (1978), the main researcher of the "MAK" Vympel " corporation, Doctor of Technical Sciences.

**Sergei Tarasov**

Engineer, physicist, Ph.D., head of Sun Microsystems Representation in the CIS region (2000-2004), head of the delegation for Computer Associates, Inc (CA) in Russia and CIS (2005-2006). Member of the largest domestic IT and Web conferences and forums. One of the developers of Elbrus supercomputers.

**David Young**

Russian businessman, founder of ABBYY.

**Positions in international ratings**

YEAR	RATING	POSITION
2014	QS BRICS University Ranking	52
2015	QS BRICS University Ranking	45
2014	QS Emerging Europe & Central Asia University Ranking	17
2015	QS Emerging Europe & Central Asia University Ranking	10
2014	THE BRICS University Ranking	69
2015	THE BRICS University Ranking	69
2013	100 Best Universities in the World in Physics	63
2016	THE 2016-2017 (THE World University Rankings by subject 2016-2017)	78
2016	QS World University Rankings® 2016-2017	350
2016	QS World University Rankings by Subject 2016 - Computer Science & Information Systems	351-400
2016	QS World University Rankings by Subject 2016 - Engineering - Electrical & Electronic	251-300
2016	QS World University Rankings by Subject 2016 - Engineering - Mechanical, Aeronautical & Manufacturing	201-300
2016	QS World University Rankings by Subject 2016 - Physics & Astronomy	101-150
2016	QS World University Rankings by Faculty 2015 - Natural Science	316
2016	QS BRICS University Ranking	47

YEAR	RATING	POSITION
2016	THE BRICS University Ranking	93
2017	The World's Most International Universities	126
2017	THE BRICS & Emerging Economies Rankings 2017	12
2017	THE Physical Sciences 2016-2017	78
2017	QS Computer Science & Information Systems	251-300
2017	QS Engineering - Electrical & Electronic	201-250
2017	QS Chemistry	401-450
2017	QS Engineering - Mechanical, Aeronautical & Manufacturing	201-250
2017	QS Physics & Astronomy	42
2017	QS Mathematics	151-200
2017	QS Engineering & Technology	322
2017	QS Natural Sciences	135
2018	THE World University Rankings 2018	251-300

### Positions in Russian ratings

YEAR	RATING	POSITION
2014	Interfax National University Rankings	4
2015	Interfax National University Rankings	3
2012	Best Russian technical university by quality of applicants admitted	1

YEAR	RATING	POSITION
2014	Expert RA Russian Universities Rating	2
2015	Expert RA Russian Universities Rating	2

## International partnership

### MIPT partners include :

- Massachusetts Institute of Technology (MIT), USA.
- Ecole Polytechnique, France.
- École Polytechnique Fédérale de Lausanne (EPFL), Switzerland.
- University of California, USA.
- Universitetssenteret på Svalbard (UNIS), Norway.
- University College London (UCL), UK.
- Institut Polytechnique des Sciences Avancées (IPLSA), France.
- Université Jean Monnet, France.
- Peking University, China.
- Le Quy Don Technical University, Vietnam.
- University of Manchester, UK.
- Chalmers tekniska högskola (Chalmers University of Technology), Sweden.
- Humboldt-Universität zu Berlin, Germany.
- University of Texas at Dallas, School of Management, USA.
- Carnegie Mellon University, USA.
- Kyoto University, Japan.
- University of Electro-Communications, Japan.
- Indian Institute of Information Technology Allahabad, India.

## Olimpiads



[International student conference on scientific and technical works "Start in Science"](#)

**Dates of the event:**  
**September 25, 2017 -**  
**January 8, 2018, The**  
**period of the final stage:**  
**February 17 - February**  
**24, 2018**

The event is held in following general subjects:  
 applied mathematics and Informatics,  
 fundamental and applied physics, radio  
 technology and computer technology,  
 physics of materials and quantum  
 systems, aero-physics and space  
 exploration, biological and medical  
 physics, education science, Economics  
 and management.

Categories of participants:

- foreign citizens who are studying at Russian educational institutions;
- foreign citizens and compatriots studying at foreign educational institutions

Age range of participants:

- pupils of 5-11 forms

The availability of privileges (special rights) for foreign citizens and compatriots who are the winners of the event:

privileges at admission to MIPT.



### [The Contest "Master's degree of MIPT"](#)

**Distant (online stage): Presumably December, 2017 - February, 2018, Live (final): Presumably February, 2018**

The Contest involves two stages:

- Distant (online stage): Presumably December, 2017 - February, 2018,
- Live (final): Presumably February, 2018

Live stage will be held in cities of Dolgoprudnyy (MIPT), Almaty, Novosibirsk, Minsk, Saint Petersburg, Ufa, Chelyabinsk.

Full list of cities hosting the live stage will be published on the contest site no later than February, 2018

General subjects (field of study, specialization of higher education) in which the event is held:

mathematics, physics

Categories of participants:

- foreign citizens studying at Russian educational institutions;
- foreign citizens and compatriots studying at foreign educational institutions.

Age range of participants (age and / or forms, courses):

- 4th year students.

The availability of privileges (special rights) for foreign citizens and compatriots who are the winners of the event:

- privileges for admission at Master's degree course of MIPT



### [The 57th MIPT visiting contest in physics and mathematics 2018](#)

**January 15, 2018 - February 5, 2018**

This outdoor contest is one of the qualification phases for the contest "Phystech" which are included in the List of Contests for schoolchildren. It also gives scores to the applicants registry of MIPT and applicant's portfolio.

It is also important that outdoor Contests is a good practice in solving tasks before the upcoming Contests and the preparation for passing of Single State Exam in mathematics and physics.

ATTENTION! A preliminary list of venues of the outdoor Contest in physics and mathematics will be published later.



### [The Contest "Phystech 2018"](#)

**September 30, 2017 - February 4, 2018**

Participation in the contest "Phystech" gives right for admission to MIPT and other top universities of Russia: winners of the final stage of the Contest in physics and/or mathematics will be able to get 100 points for the Single State Examination relevantly to their diploma subject, the winners in physics will get the right to enroll at MIPT without exams.



**[The 57th MIPT Traditional Contest in physics and mathematics 2018](#)**

**February 19, 2018 10:00 - 18:00**

Every year the Traditional Contest on physics and mathematics takes place at MIPT. This is a great opportunity for seniors to try their hand before the contest "Phystech".

The Contest is held for pupils of 5-11 forms.

The traditional Contest in physics and mathematics is a unique opportunity for students to try their strength and compete with students from all over Russia.

Participants should bring writing-books and writing accessories.

The event is held in following general subjects:

Informatics.

Categories of participants:

- foreign citizens who are studying at Russian educational institutions;
- foreign citizens and compatriots studying in foreign educational institutions

Age range of participants:

- the students

The capital contest is one of the qualification phases for the Contest "Phystech 2018". Winners and prize-winners of the Contest have the right to participate in the final stage of the Contest "Phystech", winning which gives benefits of 100 points for the Single State Examination, and the winners in physics get the right to enroll at MIPT without exams.

Both residents of Moscow and Moscow region and the residents of other regions can participate in the competition.

Available for students of 5-11 forms.

Contests in physics and math are held separately in one day.



**[International seminar on programming in the framework of the world championship \(Moscow International Workshop ACM ICPC\)](#)**

**Date will be announced later (Russian Federation, Finland, Lithuania, Armenia, Belarus, Ukraine, Latvia, Denmark, Iceland)**



**[The 19th MIPT capital contest of physics and mathematics](#)**

**December 2, 2017 10:00 - 14:00**



**Academic competition**  
**"Phystech.International"**

**Online stage: September 25, 2017 - December 1, 2017, Final stage: December 16, 2017 - December 17, 2017**

MIPT conducts academic competition "Phystech.International" with the support of the Federal Agency for Commonwealth of Independent States, compatriots living abroad and for international humanitarian cooperation (Rossotrudnichestvo).

Participation is available for students of 9-11 forms (10-12 forms for 12 years of education) secondary educational institutions.

The goals and objectives of the Contest:

- identification and development of schoolchildren's abilities in exact Sciences
- promotion of Russian education abroad
- creating more opportunities for winning the competitive selection for places provided by state budget within the quota of the Government of the Russian Federation
- improving of access of talented youth from the CIS and non-CIS countries to the programs of Russian education
- creation of database of promising applicants to MIPT for further methodological support

To participate in the final stage of the Contest you must be the winner of the Online stage. The best participants according to the results of the Online stage among the winners will receive valuable prizes.

All winners of the final stage of the Contest will receive points in individual achievements to the portfolio of the applicant which are considered at entering MIPT.





**Student contest**  
**"Technokubok" (Technical cup)**

**Introductory stage: 14 Sep 15:00 - 17 Sep 15:00, October 12, November 9.**  
**Qualifying stage: 17 September, 16:00 - 18:00, October 15, November 12. The final stage: in the period from 1 February to 31 March 2018**

MIPT and Bauman Moscow State Technical University jointly with the Mail.Ru Group second time start the "Technokubok"- Contest in programming for schoolchildren. The Contests included in the List of Contests as Contest of III level! The winners will not only receive extra points for admission to Bauman Moscow State Technical University and Moscow Institute of physics and technology, but also benefits for many other higher education institutions throughout Russia. In addition, the winners will receive prizes from Apple, and also being students of prestigious technical universities of the country, they will have advantage at entering educational projects: Tekhnopark and Technopark. We invite to compete for the title of most talented young programmer the pupils of 8-11 forms, regardless of their place of residence.

This year at MIPT winners of Technokubok will receive 100 points in the subject Computer science.

**Introductory stage:**

- The first introductory round: 14 Sep 15:00 - 17 Sep 15:00
- Second introductory round: October 12, time TBD
- Third introductory round: November 9, time TBD
- The introductory rounds does not affect the result

**Qualifying stage:**

- First qualifying round: 17 September, 16:00 - 18:00;
- Second qualifying round: October 15, time TBD;
- Third qualifying round: November 12, time TBD;

**The final stage:**

Full-time at the sites of the organizers: in the period from 1 February to 31 March 2018

The addresses are: Moscow, Rubtsovskaya embankment, 2/18 (MGU im. N. Ush. Bauman) Dolgoprudny, Moscow region, Institutsky, 9 (MIPT)

The awarding office Mail.Ru Group

The competition is held jointly with the consortium of technical universities of Russia under the aegis of Rossotrudnichestvo.

Exact dates are available at the website of the Rossotrudnichestvo office in your country.



**Time to study in Russia!**

**Date will be announced later (China, India, Mongolia, Vietnam, Armenia, Moldova, Ukraine, Kazakhstan, Kyrgyzstan)**

**Preparatory department for foreign applicants**

## **Preparatory department for Bachelor's programme**

At the preparatory department, MIPT international students study Russian and natural science subjects. In addition, the social and psychological adaptation of students to studies and life in Russia is ensured.

Studies are held in small groups. Experienced teachers help international students learn Russian fluently.

Duration of studies - 10 months. Upon completion, students take exams. Tuition is set annually by order of the rector (in 2016-2017 it is 120,000 rubles or about USD 2,000).

The students who have passed competitive selection for scholarships for study in Russia for foreign citizens (quotas) of the Government of Russian Federation study free of charge at the preparatory department.

## **Preparatory department for Master's programme**

In the preparatory department, MIPT international students study Russian and natural science subjects. Students are also provided support to ensure they adapt socially and psychologically to studying and living in Russia.

Classes are held in small groups. Experienced teachers help international students learn Russian fluently.

Duration of study - 10 months. Upon completion, students take exams. Tuition is set annually by order of the rector (in 2014-2015 it is 120,000 rubles or approximately 2000 US dollars).

Students who have passed competitive selection for government scholarships for studying in Russia (quotas) study free of charge in the preparatory department.

## **Support of foreign students**

The MIPT International Education Centre and International Students' Office are responsible for providing support and guidance to international students.

## **Everyday life of foreign students**

The MIPT campus is located in Dolgoprudny (20 minutes travel from the centre of Moscow by electric train). All students are accommodated in the dormitory located two minutes from lecture halls and laboratories.

Located on the student campus, the dormitory is a modern complex with all the necessary conveniences for students. Facilities are fully equipped for study, relaxation, fitness and sport.

The dormitory has Internet access.

Cost of housing is 1000-1135 rubles per month (16-20 US dollars) depending on the type of room.

There is a health clinic on campus

A university health resort is located on the shore of Pestovo Reservoir

## **Leisure and sport events**

### **1. Sports infrastructure:**

- stadium;
- 3 sports buildings;
- swimming pool;
- tennis courts;
- basketball and volleyball courts.

Gyms are fully equipped and marked for lessons in mini football, basketball, volleyball, badminton, tennis, ping pong and other sports.

In winter, ice rinks are set up on the athletic fields, and there is a ski trail in the adjacent forest. Skate and ski rentals are available.

## 2. Sports teams and clubs

The chess club, mountain club, yachting club, Barrier caving club, Phystech-Dive underwater club, boxing club and martial arts clubs are very popular among MIPT students.

## 3. Sporting events

The biggest event in the sporting calendar of MIPT is the Matches of the Century football tournament held between departments every spring. The matches last for 24 hours without a break, the number of substitutions is unlimited, the teams include students and graduates of the university from various years and from all over the world, from San Francisco to Vladivostok.

## 4. Cultural entertainment

Student festivals, concerts, and performances by dozens of creative clubs and associations of the university take place in the MIPT concert hall and in campus clubs.

Art and photo exhibitions take place in the halls of educational buildings and dormitories.

Traditional events that have become an integral part of the university's cultural life take place in Phystech annually. Everything starts in September with a traditional "Potato Concert" in honour of and for first-year students of MIPT.

It is followed by a sequence of department matriculations supported by the performances of STPM (Student Theatre of Pop Miniatures). In parallel, a season of Wit and Humour Club opens. At the end of November, a large concert programme is prepared for the MIPT birthday. In spring at Phystech, the sports festival "Night 1001" is held (third year students celebrate the "equator" - half of their term of studies at the university), as well as the "MIPT Physicist Days".

Since 2013, the Arts Festival at Phystech has been held.

## Events



### [Time to study in Russia!](#)

**March 2016 — November 2016**  
(China, India, Mongolia, Vietnam, Armenia, Moldova, Ukraine, Kazakhstan, Kyrgyzstan )

The competition is held jointly with the consortium of technical universities of Russia under the aegis of Rossotrudnichestvo. Exact dates are available at the website of the Rossotrudnichestvo office in your country.



## **Phystech. International**

**20.10.15 – 13.12.15**  
(Moldova, Ukraine,  
Kazakhstan, Kyrgyzstan,  
Latvia, Belarus, Armenia)

Phystech. International



## **Open doors day at MIPT 2018**

**January 14, 2018 10:00 – 16:00, April 8, 2018 10:00 – 16:00**  
Dolgoprudny, Moscow  
region, (Russia)

This day, all 11 faculties of the University are prepared to receive guests at their stands. Each stand, as well as each faculty, is unique and the variety of demonstrations introducing a specific faculty is amazing. The campaign team will welcome you and answer any questions the students concern, tell you about their faculty, share personal experiences and bestow guests with informative brochures and Souvenirs with symbols of MIPT. Visiting this event within the walls of MIPT will give you the following opportunities:

- to see the legendary Phystech actually, to estimate the conditions of training and to visit science centers, museums and laboratories
- to communicate with representatives of faculties, departments and choose a training program
- get counseling for admission to MIPT
- to attend the demonstration experiments and competitions in robotics
- to participate in interesting quizzes and contests with valuable prizes
- to attend meetings with the rector of MIPT and the deans of the faculties.

...and just have fun!

## **Additional information**

### **Academic Staff**

#### **Alexey Abrikosov**

Nobel Prize winner (2003). His main discoveries were made in the sphere of physics of condensed media.

#### **Vitaly Ginsburg**

Nobel Prize winner (2003). Author of the quantum theory of the Vavilov-Cherenkov effect and Cherenkov radiation theory.

#### **Pyotr Kapitsa**

Nobel Prize winner (1978). Discovered the superfluidity of fluid helium phenomenon.

#### **Lev Landau**

Founder of an academic school, author of the fundamental textbook Course in Theoretical Physics. Nobel Prize winner (1962), awarded for breakthrough research on liquid helium.

#### **Alexander Prokhorov**

Nobel Prize winner (1964). Conducted pioneering research in quantum electronics; one of the inventors of laser technologies.

#### **Andrei Sakharov**

Nobel Prize winner (1975). Took part in creating the first Soviet hydrogen bomb. Human rights activist and public figure.

**Igor Tamm**

Nobel Prize Winner (1958). Developed a method of quantum field theory solution, the Tamm-Dankov method, jointly with Andrey Sakharov developed plasma retention principles.

**Nikolay Semenov**

The only Soviet Nobel Prize winner in Chemistry (1956). Basic scientific achievements include the quantitative theory of chemical chain reactions, theory of thermal explosion and gaseous mixture combustion.

**Contacts**

9 Institutskiy per., Dolgoprudny, Moscow Region, 141700, Russian Federation

<https://mipt.ru/en/>

**International Relations Office**

**8 (495) 408-75-63**

(09:00 - 18:00 (UTC+3) Moscow MSK)

[marina.fomina@list.ru](mailto:marina.fomina@list.ru)

**International Students Office**

**8 (495) 408-70-43**

(09:00 - 18:00 (UTC+3) Moscow MSK)

[intoff@mipt.ru](mailto:intoff@mipt.ru)