



Leading Ahead, While Preserving Traditions!



National University of
Science and Technology

Rector's Introduction



NUST MISIS that in 2018 celebrated the 100th anniversary from the establishment of the Moscow Mining Academy, to which it succeeds, is a dynamically developing world-class research and education center. While based on the traditions of the Russian higher education, the University generates its own research and education agenda, creates an original international environment, attracts well-trained entrants and hires leading scientists and talented lecturers.

By implementing the integrated development strategy, NUST MISIS has achieved impressive results in all areas of its activity, namely R&D, educational and extracurricular ones. Several large-scale research projects have been launched at the University, and a significant quantitative and qualitative increase of the number of scientific papers authored by NUST MISIS researchers has been recorded. In October 2018, NUST MISIS opened its Center of the National Technological Initiative Quantum Communications designed to evolve quantum cryptography, develop the theory of quantum communications and train world-class specialists in this area.

In cooperation with its business partners, as well as Russian and international leading universities, NUST MISIS has developed and launched new joint educational projects. Thanks to the current occupational navigation program aimed at attracting talented secondary school students, those graduating with honors and winning academic Olympics, NUST MISIS has rolled out the most successful admission campaign making it possible to become the 4th best technical university in Russia in terms of the quality of admission.

We provide students and postgraduates with conformable conditions and opportunities to acquire high-quality education, get involved into R&D activities and uncover their personal and professional potential. The establishment of a creative eco-environment with the University allows maximizing the capabilities of each student. Extra-curricular activities of our students in various fields have been highly praised at the federal level.

The University's successful development has been objectively reflected in the strengthening of its positions in the world's leading university rankings. In 2018, NUST MISIS was included in the top-500 best universities according to QS World University Rankings. Today, our University holds the leading positions in the THE, QS and ARWU rankings by subject in ten areas, including top-100 in Engineering – Mineral & Mining (QS ranking) and Metallurgical Engineering (ARWU ranking), while in Materials Science NUST MISUS is included in 101+ group of the best universities (QS ranking).

The University's team faces ambitious goals and challenges. I am sure we will meet them with dignity. NUST MISIS has everything it needs to become one of the best technical universities in Russia and globally. This is due to the well-chosen development strategy, a highly professional team, talented students, an advanced research and teaching infrastructure and support of the business community.

NUST MISIS Rector
A.A. Chernikova

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About the University



NUST MISIS today

NUST MISIS colleges

6

9

colleges

6

branches

1

business school

1

representative office

4,000

employees

> 1,000

doctors and candidates
of sciences

22,000

students

3,000

international
students

81

countries worldwide

1

shared use center

3

world-class engineering
centers

> 30

research laboratories

**CNMNT
(INMIN)**

College of New
Materials and
Nanotechnologies



**CESTE
(ECOTECH)**

College of
Environmentally
Sound Technologies &
Engineering



CM (GI)

College of Mining



**CITACS
(ITASU)**

College of IT &
Automated Control
Systems



**CIBS
(IIBS)**

College of Information
Business Systems



**CEIM
(EUPP)**

College of Economics
& Industrial
Management



**CBPS
(IBO)**

College of Basic
Professional Studies



**CLL
(INOBR)**

College of Lifelong
Learning



**CQAHE
(IKVO)**

College of Quality
Assurance in Higher
Education



NUST MISIS in Institutional Rankings

NUST MISIS in International Rankings by Subject

8



9



"I am aware of your outstanding achievements, first and foremost, in the context of Project 5-100, and I know what you managed to do. It means that the University is not at a stop, but moves on. And this is your absolute achievement, and the achievement of the Russian Federation and of the Russian education"

Tatiana Golikova

Deputy Chairman of the Government of the Russian Federation

History of NUST MISIS

2019

NUST MISIS is found in the THE, QS and ARWU rankings by subject in ten areas, including top-100 in Engineering – Mineral & Mining (QS ranking) and Metallurgical Engineering (ARWU ranking), while in Materials Science NUST MISIS is included in 101+ group of the best universities (QS ranking)

2018

NUST MISIS strengthened its positions in global rankings by subject by entering the top-50 of the QS Engineering – Mineral & Mining category, top-100 of the ARWU Metallurgical Engineering category and top-200 of the U.S. News Materials Science

2015

NUST MISIS was named among the best universities globally according to the THE rankings and ran 19th in the THE World's Best Small Universities Ranking

2016

NUST MISIS showed the highest growth rates among Russian universities in the QS world and regional rankings

2017

For the first time ever, NUST MISIS appeared on the THE, QS and ARWU rankings by subject. In particular, it ran 31st in the QS ranking by subject in the Engineering – Mineral & Mining category and 76th in the ARWU ranking by subject in the Metallurgical Engineering category

2014

Merger of NUST MISIS and MSMU (Moscow State Mining University). Our university was among the best world universities, according to the QS rankings

2013

NUST MISIS was announced the winner of Project 5-100

2008

National University of Science and Technology MISIS – NUST MISIS

1918

Moscow Mining Academy

1930

Moscow Institute of Steel – MIS

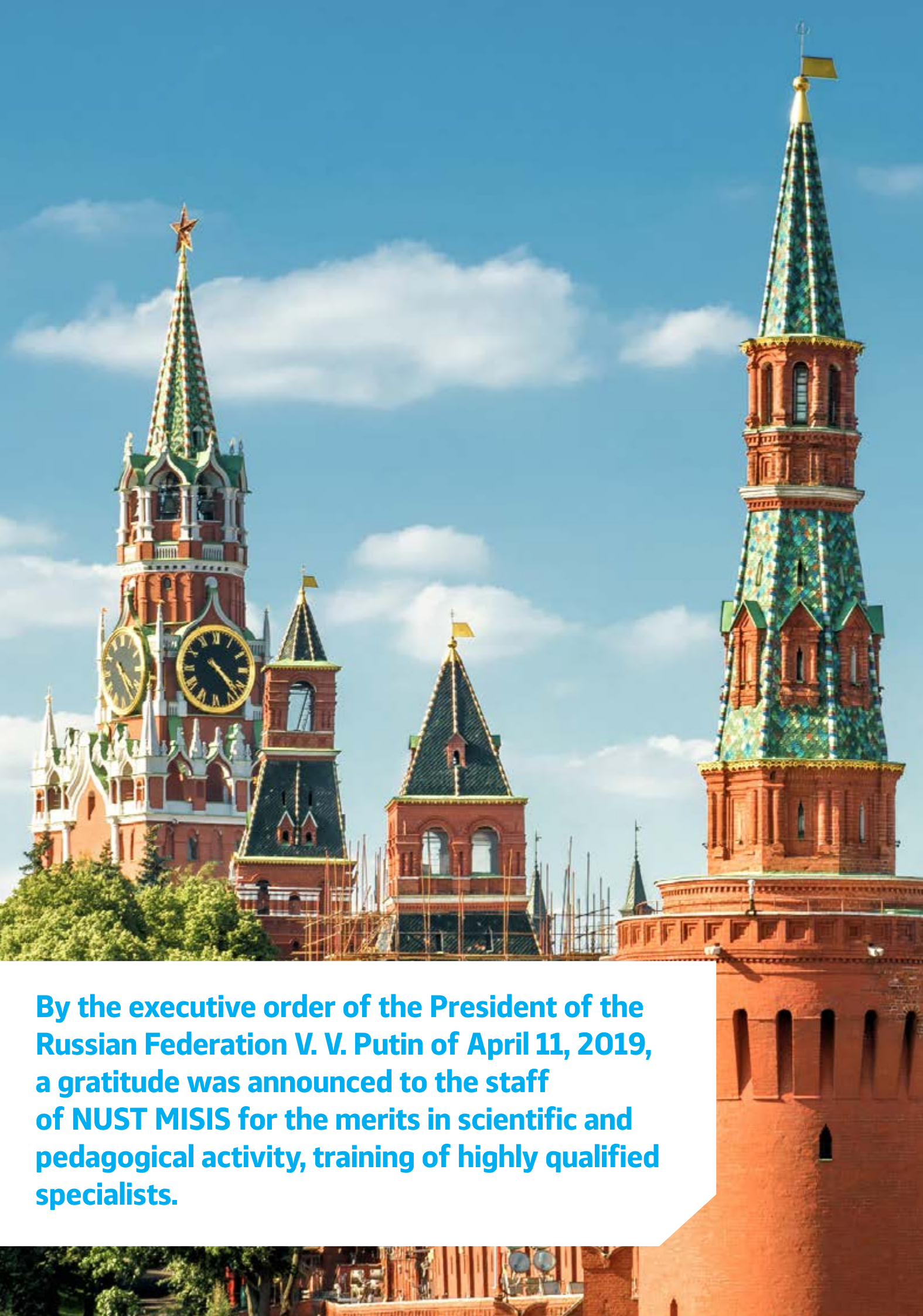
1962

Moscow Institute of Steel and Alloys – MISIS

100

**In 2018 the University
celebrated its
Centenary**





By the executive order of the President of the Russian Federation V. V. Putin of April 11, 2019, a gratitude was announced to the staff of NUST MISIS for the merits in scientific and pedagogical activity, training of highly qualified specialists.

Education



Professional Navigation Program

Moscow and Moscow Region

PRE-STUDY COURSES	WELCOME DAY	AWAY WELCOME DAYS	FESTIVAL OF SCIENCE
UNIVERSITY SATURDAYS	NUST MISIS ROBOCENTER	ONLINE LECTURES	DIGITAL PRODUCTION IN FABLAB
TWO DAYS IN NUST MISIS	UNIVERSITY OF DREAMS	EDUCATION CENTERS	ENGINEERING SCHOOL
MATHEMATICAL VERTICAL	UNIVERSITY WEDNESDAYS FOR TEACHERS	SCIENCE DAYS	ENGINEERING CLASS IN A MOSCOW SCHOOL
ACADEMIC OLYMPICS, COMPETITIONS	PRE-PROFESSIONAL EXAM	OPEN LESSONS	EXHIBITIONS: <ul style="list-style-type: none">MOSCOW INTERNATIONAL EDUCATION SALONCITY FOR EDUCATIONVUZPROMEXPO
EXCURSIONS AND MASTER CLASSES (ENTERPRISES, DEPARTMENTS, LABORATORIES, ENGINEERING CENTERS, MUSEUMS)	CULTURAL EVENTS (SPORTING COMPETITIONS, STUDENT SELF-ADMINISTRATION, CREATIVITY EVENTS)	INTER-UNIVERSITY ACADEMIC NAVIGATION CENTER FOR MINING AND GEOLOGICAL MAJORS	

Russian Regions

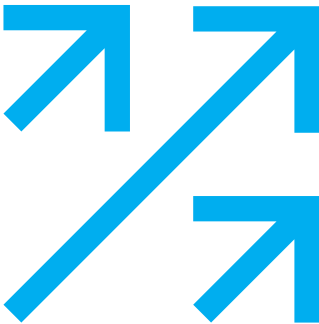
PARTICIPATION IN THE PROEKTORIYA FORUM	ENTRANCE NAVIGATOR	ACADEMIC OLYMPICS, COMPETITIONS	ENGINEERING SCHOOL
TWO DAYS IN NUST MISIS	PARTICIPATION IN EDUCATIONAL EXHIBITIONS	ONLINE LECTURES	SCIENCE DAYS
OPEN LESSONS	PROJECT SHIFTS IN EDUCATION CENTERS	AWAY WELCOME DAYS OF NUST MISIS	EXCURSIONS AND MASTER CLASSES (ENTERPRISES, DEPARTMENTS, LABORATORIES, ENGINEERING CENTERS, MUSEUMS)

Neighboring and Other Countries

ACADEMIC OLYMPICS, COMPETITIONS
PRE-STUDY DIVISION
ENGINEERING SCHOOL
EXCURSIONS AND MASTER CLASSES (ENTERPRISES, DEPARTMENTS, LABORATORIES, ENGINEERING CENTERS, MUSEUMS)
ACADEMIC OLYMPICS AS PART OF COOPERATION WITH ROSSOTRUDNICHESTVO AND THE ASSOCIATION OF GLOBAL UNIVERSITIES
EXHIBITIONS <ul style="list-style-type: none">“Education and Career”“Education in Russi”the largest global education exhibitions (NAFSA, EAIE, AULA, etc.)

Identification and Support of Talented Youth

REGIONAL CENTERS OF SUPPORTING GIFTED CHILDREN	ACADEMIC OLYMPICS <ul style="list-style-type: none">United Inter-University Mathematical CompetitionStar Multi-Discipline Engineering CompetitionSchool Internet Competition in PhysicsOpen Competition in ChemistryCompetition of the National Technology InitiativeOpen Competition in Programming Cognitive TechnologiesMISiS Lights StarsEnglish for the Global ProgressBecome an IT ProfessionalCreative Design Competition Named after Academician A.A. BochvarIT PlanetI am a ProfessionalPre-Professional Academic Olympics
CENTERS OF YOUTH INNOVATIVE ARTWORK	
QUANTORIA	
PARTICIPATION IN THE PROEKTORIYA FORUM	
R&D IN THE ENGINEERING SCHOOL JOINTLY WITH DEPARTMENTS AND LABORATORIES OF NUST MISIS	
PROJECT SHIFTS IN EDUCATION CENTERS <ul style="list-style-type: none">Education Center SiriusInternational Child Center ArtekAll-Russian Child Center SmenaAll-Russian Child Center OceanAll-Russian Child Center Orlenok	



Project Shifts in Education Centers

80 mln

NUST MISIS has developed and is actively implementing the program for professional navigation. In its framework, the University collaborates with leading Russian educational centers: Sirius, Artek, Smena, Orlyonok, Okean.

In June 2019, NUST MISIS together with leading metallurgical and technical companies for the third time in a row organized “New materials” direction at the educational program “Big Challenges”, held in Sirius. 30 school students from 16 regions of Russia, supervised by leading scientists and pedagogues, were implementing 6 projects in the sphere of Materials Science.

16



30
shifts

2,783
participants
completed training

7
online lectures

> 50,000
views of each lecture



ProeKTOriYA

NUST MISIS is a partner of the arranger of all-Russian open lessons – the ProeKTOriYA portal – held as part of the Russia Making for the Future cycle. These activities are supported by the Ministry of Education of the Russian Federation and are intended to help school students generate the image of their future, select their educational trajectory.

17



25,000
schools

15
open lessons



> 1 mln
views on the online
broadcast of each
lesson

80 mln
views in social
media in a year

Admission Campaign

Admission quality monitoring

84%

4

The admission campaign of 2019 has become the most successful one for NUST MISIS over the recent years



58

applicants per one budgetary place to fill in for a number of courses

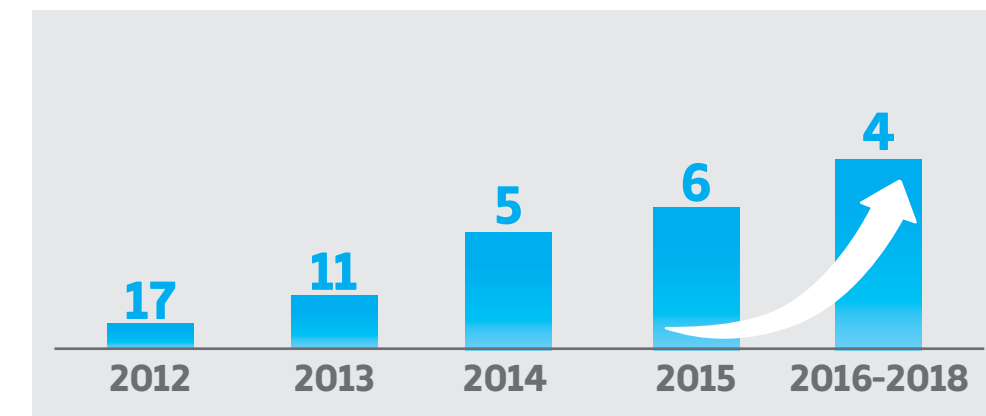
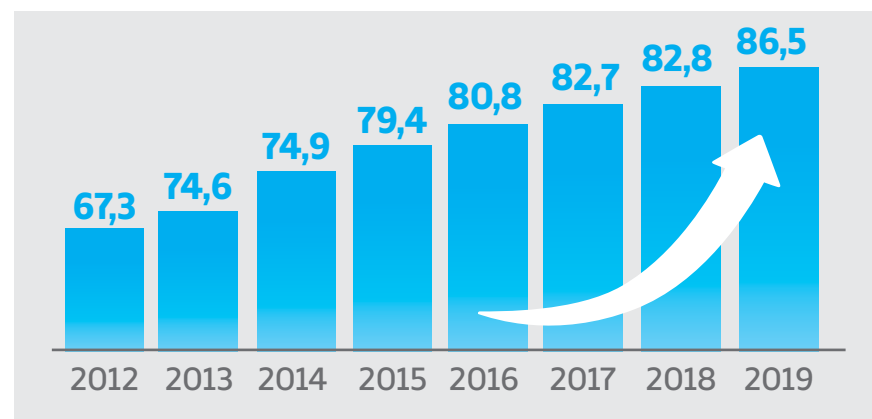
10

applicants per 1 place at the Bochvar's international competition for admission to master's degree programs

84%

graduates have the aggregate USE (Universal State Exam) grade of 240 and higher

Average USE grade growth



Technical universities, over 300 admission quotas

NATIONAL UNIVERSITY RANKINGS

1

Forbes Ranking of Russian Universities

12

Interfax National University Ranking



"I would like to emphasize a special role of NUST MISIS in preparing specialists for UMC (United Metallurgical Company) enterprises. The superb quality of education and depth of knowledge of our employees, unprecedented academic programs proposed by the University, including those developed specifically for us, are among the key factors of UMC success"

Anatoly Sedykh

Chairman of the Management Board, JSC UMC. Graduate of MISIS

Educational Environment

7

7 Fundamental Principles

20

Integration of Science and Education

NUST MISIS provides students with all the possibilities for integrating scientific, educational and innovative activities. Masters and postgraduates are involved in implementing scientific and innovative projects, participate in developing educational programs.

Interdisciplinarity

In the context of shifting to the digital economy, we cannot do without professional staff possessing interdisciplinary competences, capable of integrating knowledge from various areas and applying the same for the creation and market launch of new hi-tech products.

Project Activities

NUST MISIS is a project-oriented university that trains students based on individual training and internship trajectories, business cases developed with the participation of partner companies.

Digital Environment

Possibility to acquire high-quality education from the best professors online via NPOEd, edX and the University's Canvas system.

Academic Mobility

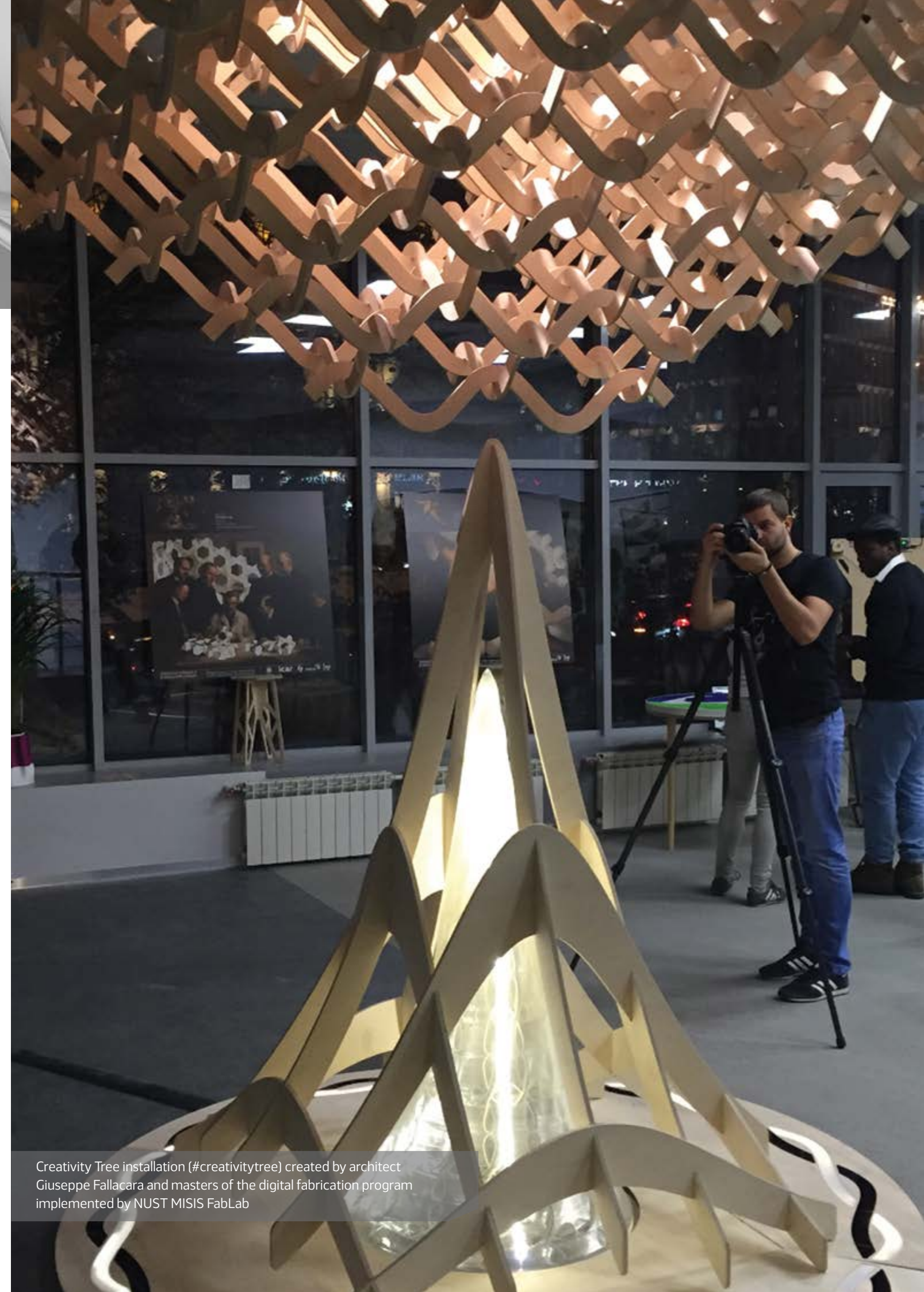
Study abroad at 300 partner universities within double degree programs, academic internships and practices. Foreign students and young scientists may attend international summer schools of the University and enter English-speaking master's and postgraduate programs.

Creative Environment

NUST MISIS generates a creative environment that facilitates the discovery of each student's potential to the maximum degree possible. The University provides students with the opportunities to acquire high-quality education, get involved into R&D activities and uncover their personal and creative potential.

Critical Thinking

Critical thinking is a must-have for any graduate of the leading technical university. In these days, where information is of the utmost importance, it is essential to know how to identify what is needed and verify incoming data. The University helps students master skills of individual study and continuous self-teaching.



Creativity Tree installation (#creativitytree) created by architect Giuseppe Fallacara and masters of the digital fabrication program implemented by NUST MISIS FabLab

Bilingual Environment

6

Each year, NUST MISIS trains more and more students who are fluent in English, which allows extending the opportunities of acquiring the global education to the maximum extent possible. The University implements a unique program of teaching English for technical students Touchstone@MISIS that was developed jointly with the University of Cambridge.

Over five years, the number of students who have confirmed their good command of the English language at the C1 level has increased sixfold.

22



English-Medium
Postgraduate
Studies

PostDocs Program

International
Summer Schools



11

English-medium
master's programs
are implemented
at NUST MISIS

Digital Environment

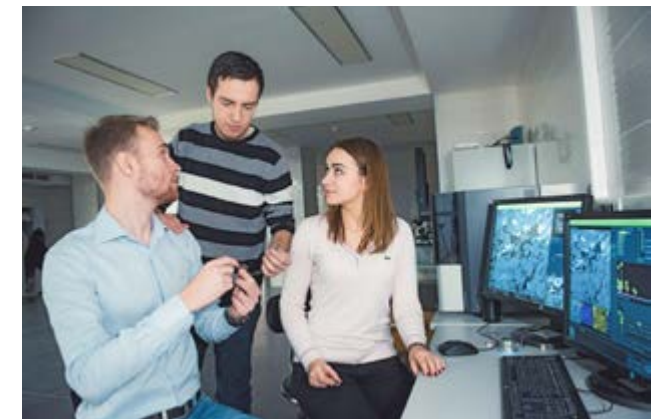
34

NUST MISIS is a participant of the top-priority state-funded project “Modern Digital Educational Environment in the Russian Federation”

34

online courses have been developed and launched by the University on the National Open Education Platform (NPOEd)

25



56,000

participants of online courses on openedu.ru

TOP-3

time-management course is constantly found among the top-3 most popular courses at openedu.ru

2

online courses in English on edX educational platform

#EdCrunch

20,000

NUST MISIS is the ideologist and arranger of Europe's largest conference announcing new technologies and trends in education #EdCrunch. Year by year, the conference becomes an ever far-reaching event that gathers major Russian and international experts, representatives of educational institutions and the business community to discuss new ideas and trends in education.

26



20,000
online participants

5,000+
offline participants



150
presentations, master
classes and discussions

50
EdTech companies
attended EdCrunch
Expo

300

Russian and international
speakers took part
in the conference



Creative Environment

NUST MISIS generates a creative environment that facilitates the discovery of each student's potential to the maximum degree possible.

Infinite Science

Open lectures by globally renowned scientists, excursions to research laboratories and engineering centers.

Technology of Success

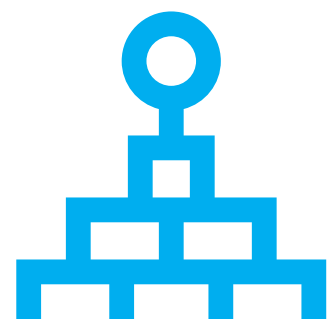
Meetings with famous NUST MISIS graduates and well-known people who share the formula of their success with students and employees of the University. As part of the project, lectures were delivered by D. Medvedev, A. Dvorkovich, A. Chubais, R. Vardanyan and many others.

Personal Effectiveness

Lectures and workshops by leading experts and best coaches in their fields, at which students are introduced to the skills of time management, goal-setting, presentation, business protocol, etc.

CultLab

Within the project, students are being introduced to various artistic fields, attend the art school, where they work with abstract artists, try their hand at painting.



30+

**student organizations
are function
at NUST MISIS**

Additional Education

Digital Transformation of Mining Companies

The Department of Automated Control Systems of NUST MISiS has arranged advanced training courses for the administrative personnel of mining companies. The program is devoted to the digital transformation of enterprises, in particular, the replacement of humans with robots in complicated operational areas. The courses have been developed by Scientific and Educational Center “Intellectual Mining Enterprise” established jointly with the University's business partners – VIST Group and SAP. SUEK's employees from different Russian cities and towns have become the first students.



Strategic Management in Mining Companies “MBA Program”

Under the Ministry of Foreign Affairs of the Russian Federation and Non-Commercial Partnership for Mining Industry Development Assistance have launched the program for top managers of mining companies. In 2018, representatives of government entities joined the MBA program: the Ministry of Energy of the Russian Federation, the Ministry of Natural Resources of the Russian Federation, Rostekhnadzor, GKZ.



Fundamentals of Non-Ferrous Metallurgy

The College of Lifelong Learning of NUST MISiS pursues the occupational retraining of specialists with higher or secondary vocational education in over 30 fields of study. PJSC MMC Norilsk Nickel is one of the key partners of CLL (INOBR).

In 2018, the customized course devoted to the fundamentals of non-ferrous metallurgy was held for the top managers of Norilsk Nickel that examined cases from operating activities of the said enterprise. As part of extending cooperation, a video course is being developed for those employees of Norilsk Nickel who have no industry-specific mining education.



Science

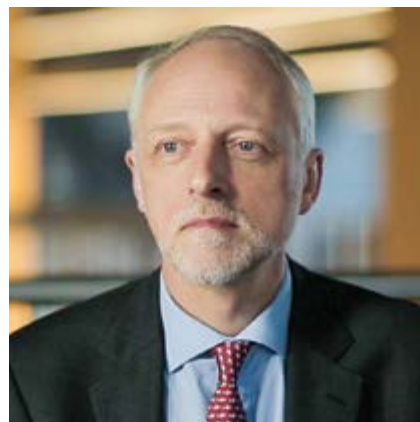
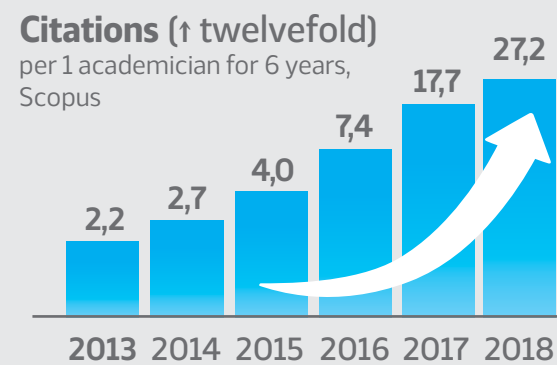
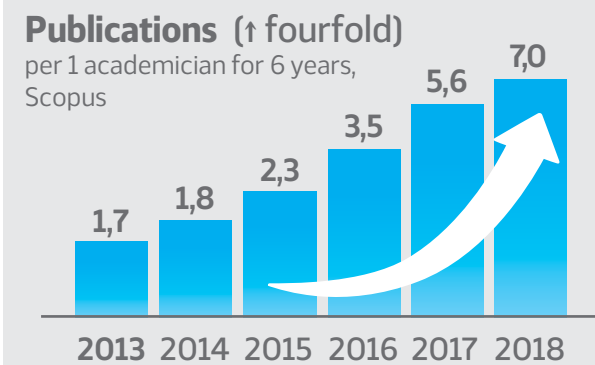


Publication Activity

12

1st place

among the universities involved in Project 5-100
by the number of publications on Materials Science
in the Q1 journals by SNIP



Lindsay Greer

Member of NUST MISIS International
Scientific Advisory Council,
Professor at the Department
of Materials Science & Metallurgy
of the University of Cambridge

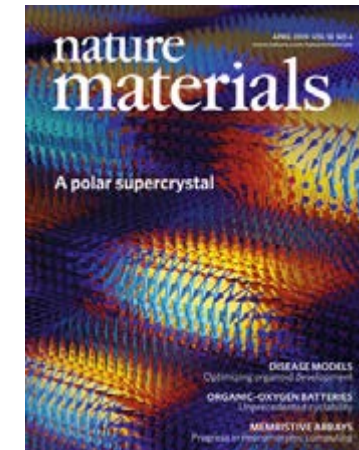
“NUST MISIS keeps opening new laboratories where unique research is being performed. In my opinion, this is one of the most important achievements of the University. Most of the work is traditionally focused on materials science, but NUST MISIS does research in other promising areas, such as biomedicine or quantum computers as well. The University’s achievements and developments in these areas may also be called advanced”

Publications in the World’s Leading Academic Journals

The University’s scientists publish their articles in the top-rated journals included in TOP 1% by SNIP.
NUST MISIS researchers’ articles are published in such journals, as Science, Nature, Chemical Reviews, etc.



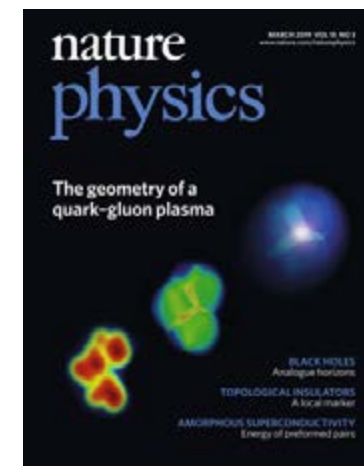
Chemical Reviews
(article of A.S. Mukasyan)



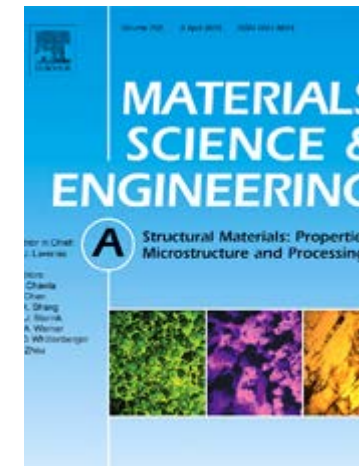
Nature Materials
(article of A.N. Vasiliev)



Science
(article of S.V. Morozov)



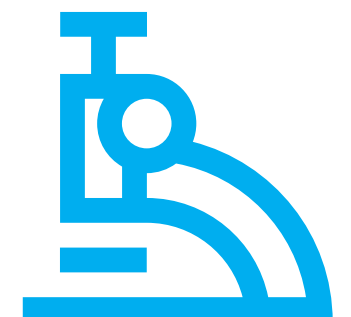
Nature Physics
(article of K.B. Efetov, D.K. Efetov)



Material Science & Engineering A
(article of A.A. Gromov)



Scientific Reports
(article of A.B. Aleksandrov)



Leading Scientists

top-100

Nowadays, more than 70 researchers who are among the most respected and influential scientists globally work for the University. D.V. Golberg, Chief of the Laboratory for Inorganic Nanomaterials, is included at top-100 most cited materials engineers globally, while S.V. Morozov, Chief of the Laboratory for Functional Low-Dimension Structures, was in 2018 awarded by Web of Science Awards as the most highly cited Russian scientists in the Physics category. Professor at NUST MISIS Anvar Zakhidov, one of the mostly cited Russian scientist according to Scopus, won the Scopus Awards Russia in 2018.

35



D.V. Golberg

Professor, Laboratory for Inorganic Nanomaterials



S.V. Morozov

Professor, Laboratory for Functional Low-Dimension Structures



A. A. Zakhidov

Professor, Academic Advisor of Infrastructural Project High-Performing, Flexible, Photovoltaic, Tandem Devices based on Hybrid Perovskites



Jan van Ruitenbeek

Member of NUST MISIS International Scientific Council, Professor, Leiden University (the Netherlands)

“Over the recent years, we have seen remarkable changes at NUST MISIS that result in the University’s climbing up various rankings. I believe that one of the reasons facilitating such changes is the attraction of ambitious scientists, many of whom are already managing projects and laboratories. These are large-scale and qualitative cultural changes”



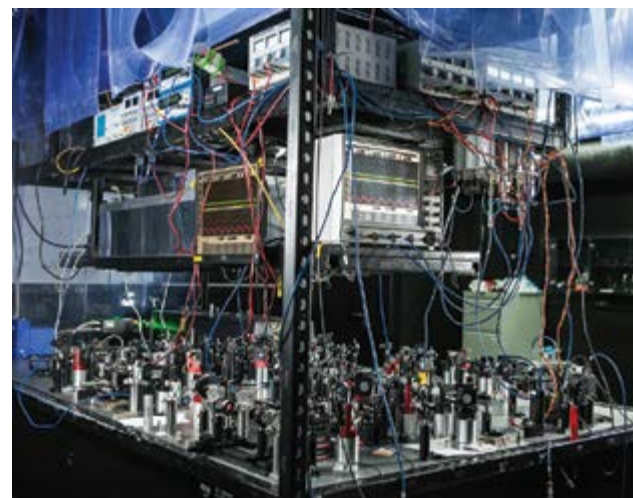
70 NUST MISIS researchers have the *h*-index of over 20

Professor Akihisa Inoue (*h*-index = 126), Head of the NUST MISIS Laboratory Promising-Energy-Efficient Materials

Centers of Disruptive Technologies

Participation in MegaScience Projects

NTI Center for Quantum Communications



NUST MISIS won the contest for creating the National Technological Initiative Center for Quantum Communications designed to develop quantum cryptography, quantum communications and to train world-class specialists in this area. The project consortium was composed of the leading Russian academic and scientific organizations, as well as small innovative enterprises.

Big Data Analysis Center



The center was created by NUST MISIS jointly with Naumen, one of the Russian IT leaders. The project allows performing research studies, develop science-intensive solutions and implement educational programs of training specialists for the future who are experts in dealing with Big Data.

In 2015, NUST MISIS became an official participant of MegaScience projects, i.e. 2 CERN experiments, LHCb and SHiP. The key points of the collaboration are the established "Center for Infrastructural Interaction and Partnership MegaScience" and the functioning at NUST MISIS national contact point "Research Infrastructures" of European program Horizon 2020.

Collaboration with CERN gives a wide range of opportunities for the implementation of various educational initiatives. In the 2018/2019 academic year, NUST MISIS and CERN implemented an interdisciplinary educational program at the intersection of high energy physics, materials science and data science. Lectures were given by leading scientists from CERN and partner universities: University of Zurich, University of Naples, Swiss Federal Institute of Technology in Lausanne, Imperial College London and others. Certificates about the successful completion of the course were given to 21 students from leading Russian universities: Moscow State University, MIPT, NUST MISIS, MEPhI, D. Mendeleev University of Chemical Technology of Russia. The best graduates received an invitation to an internship at CERN with the possibility of further employment. The program will be continued in the 2019/20 academic year.

2 MegaScience projects

SHiP

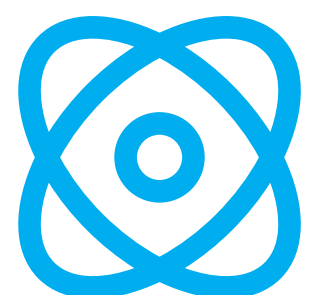
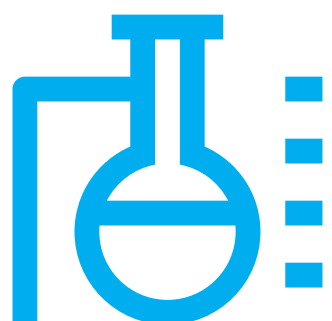
LHCb



Grigory Trubnikov

Deputy Minister for Science and Higher Education of the Russian Federation

"NUST MISIS is fully included in the «clip» of those organizations that cooperate with CERN. Now NUST MISIS is not only a University that shines in the field of new materials and technologies, but also an organization that is related to Russia's participation in the most outstanding projects in the field of particle physics"





Best Russian Metals Engineer

Aleksandr Komissarov, Head of the Research Laboratory for Hybrid Nanostructured Materials at NUST MISIS, became the laureate of the annual Metals Engineer of the Year award. The project of NUST MISIS New Cold and Corrosion Resistant Pipe Steel Grade (Severkor project) was highly praised by the jury and announced the winner in Metals Chemistry.

Moscow Government Prize

Anastasia Klimont and Ruslan Galimzyanov, researchers at the Department of Physical Chemistry at NUST MISIS won the annual prize of the Moscow Government awarded to young scientists in the sphere of science and innovations for 2018. The project was aimed at the development of electrode materials based on carbon fibers and low-temperature organic electrolytes for supercapacitors.

State Award in Science and Technologies

Efim Khazanov, Sc.D. in Physics and Mathematics, Head of NUST MISIS Laboratory "Physical Methods, Acousto-Optic and Laser Equipment for the Diagnosis and Treatment of Cancer", corresponding member of RAS has become a laureate of the State Award in Science and Technologies for a series of works "Creation of Fundamental Bases and Instrumental Solutions of Problems of Registration of Gravitational Waves".



Scientific developments of NUST MISIS have been awarded at international exhibitions

SIIF 2018, Seoul

- 1 gold
- 2 silver

IIDC 2018, Hong Kong

- 2 gold
- 1 silver

Archimedes-2018, Moscow

- 4 gold

iENA-2018, Nuremberg

- 2 gold
- 1 silver
- 1 bronze

Innova-Barcelona 2017, Barcelona

- 2 gold
- 1 silver

2 innovations of NUST MISIS scientists are among top-100 Russian Inventions



iPhD Program

Prototyping Center

2+3

The iPhD program is based on the “2+3” principle: all five years (two years of the master's program and three years of postgraduate studies), students are involved in serious scientific work in the best laboratories of NUST MISIS under the guidance of the leading scientists of the University.

The key distinctive feature of the program is that the educational component is not separated from the scientific one, as they are initially in a symbiotic relationship. That said, the scientific and educational track is generated individually for each student pursuant to his/her academic agenda.

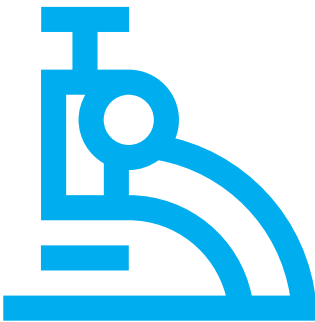
40 The program secures both advanced studies of the specialized scientific topic and the depth of knowledge necessary for a contemporary scientist. Graduates of the program may continue their career as postdocs with the leading universities globally, as research associates with academic organizations or employees of R&D companies.



Engineering Center of High-Complexity Prototyping “Kinetics” at NUST MISIS is a unique hi-tech digital laboratory performing a full cycle of developing innovative products. The sizes of created objects may vary from 1 micron to 20 m.



- Key partners include:**
- UC RUSAL
 - JSC TsNIItchmash
 - NPO Pobeda
 - RKK Energia named after S.P. Korolev
 - Haval Group of Companies
 - McFly.aero
 - Hoversurf
 - NeuroTrade



Andrey Sebrant
Director for Strategic Marketing,
Yandex

“I have not been involved in physics for quite a time, but, being a person who remembers his academic past, I can say that what I have seen in NUST MISIS laboratories today is certainly a miracle. I have performed many experiments with titanium, with changes to its surface features. But if I was then demonstrated 3D-printing devices using titanium that I have seen at NUST MISIS today, I would have said that it was impossible, and touch me by my shoulder for me to wake up”

Student Organizations

Extra-Curricular Activities



Joint Student Council

University Council

Residence Hall
Complex Council

Trade Union

Scientific Society

Student Business
Club

Student Design
Bureau

Creative Studios
and KVN

Sports Clubs

Tourist Club

International
Friendship Club

Volunteer Club

MISIS Media

Student Career
Center

Student Tutor
Club

Historical and Patriotic
Club "Steel"

The Ice Vision Hackathon

In June-July 2019, NUST MISIS together with the Russian Venture Company organized the Ice Vision hackathon – an international student competition on artificial intelligence and computer vision. Competitions with a prize fund of 3 million rubles were aimed at finding new artificial intelligence-based solutions which would allow unmanned vehicles to correctly recognize traffic conditions even in difficult weather conditions.

Students from the leading Universities in Russia and across the world, including NUST MISIS, Lomonosov Moscow State University, Moscow Institute of Physics and Technology, Skoltech, HSE, Arizona State University (USA), Beijing University of Science and Technology (China), Catalan Polytechnic University (Spain), University of Paris-Saclay (France), Ulsan University (South Korea) etc. took part in the event.

44



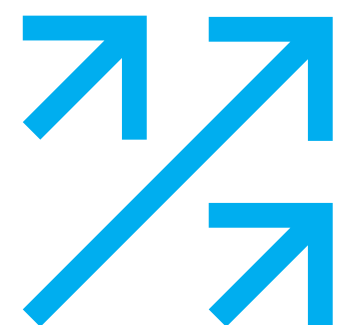
Student Office

The unified administration center for students operates as a one-stop service. The electronic reception is in charge of operating consolidated online services, scholarship and social support of students, dormitory-related issues, educational matters, etc.

The Student Office encourages the creation of a comfortable environment by facilitating many current procedures and assisting students in using their time for learning, art, sports and implementation of their ideas and projects more efficiently.



45



Student Self-Administration

1st place

Joint Student Council is a bright form of self-administration, which joins student leaders of the University and opens new opportunities for self-realization, development of student projects and solution of educational issues.

Joint Student Council

WINNER

“Involvement in Self-Government in an Organization of Higher Education”

Ranking of Moscow Student Organizations

1ST PLACE

The winner of «The Best Student Council chairman in Moscow» competition for the academic year 2018/19»

Competition of the Moscow Students and Student Organizations Association

1ST PLACE DIPLOMA

“Best Organization of Operations of the Student Commission for Education Quality”

All-Russian Competition of Student Practices in Education Quality

47

Project “New Level”

1ST PLACE

“Best System of Student Activists Training”

All-Russia Competition for the best organization of activities of students' self-government bodies (Russian youth Union)

Project “Open Rectorate”

2ND PLACE DIPLOMA

“Best Project for the Enhancement of Educational Quality”

“Best Project for the Enhancement of Educational Quality”



NUST MISIS
is recognized
the best in the
Student Trust
nomination of
student councils
of Russia



New Level 5.0 Program

Maker Faire Moscow

1st place

70,000

An important element of NUST MISIS activities to train student leaders in learning and science, professional activities and social life is the implementation of the New Level program. The business agenda of the New Level program is contributed to by the following business partners of the University: UMC, NLMK, ChelPipe, EVRAZ, Severstal, etc. Under the guidance of experienced tutors, future student leaders take part in trainings, business games, creative contests, master classes for time management, teamwork and mentorship.

The University hosted Moscow Maker Faire – the world-famous festival of inventions and bold technical solutions for the third year in a row. NUST MISIS FabLab, the ideologist and the organizer of the event, is Russia's first laboratory for digital fabrication. In 2018, the festival was held in the Gorky Park, a close neighbor of NUST MISIS.



70,000
visitors

163
exponents from
6 countries



Volunteer Movement

1,500

MISIS WORLD

4 000

50



NUST MISIS students are involved in the volunteer movement by supporting university-level, municipal and large-scale all-Russian events. Students pay visits to orphanages and correctional residential care homes, work with veterans and go to places of military glory.

For extensive preparation and conduct of the all-Russian Immortal Regiment campaign, NUST MISIS obtained a note of thanks from the President of the Russian Federation V.V. Putin.

Volunteer Programs with Business Partners

Most volunteer projects are implemented jointly with the University's business partners. Special activities are held at the Cancer Center named after N. N. Blokhin jointly with UMC, and the patronage for the children's social-rehabilitation center in Kolomna – with EVRAZ.

1,500
NUST MISIS
volunteers

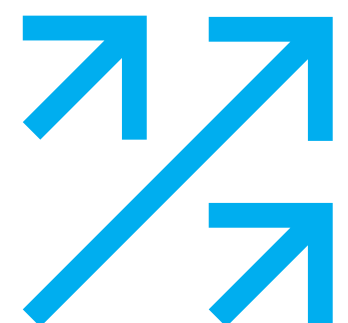
300+
events per year

The first annual open festival the «MISIS WORLD» was held on the last Saturday of June in the Gorky Central Park of Culture and Leisure, bringing together more than 4,000 graduates from different years, applicants, students, professors, scientists, academic and business partners of the university on one site. The key event of the festival was the graduation ceremony of 2019.



51

4 000
graduates from
different years





Endowment Fund

100,000
visitors



Endowment Fund

338,4 mln

The Endowment Fund of NUST MISIS was established in 2011. Its mission is to support disruptive scientific and educational initiatives and to create a uniform community of graduates who are extensively involved in the University's life. The specialized target capital fund is focused on financing and developing the University's operations and is generated by contributions from graduates and partners of NUST MISIS.

54



338,4 mln
rubles

15,000
members of the
community and
graduates

500+
donators

45+
projects implemented



Cooperation with Business

СВР MISIS CASE
ВСЕРОССИЙСКИЙ ИНЖЕНЕРНЫЙ ЧЕМПИОНАТ



Business Partners

1,600

37th place

NUST MISIS has more than 1,600 business partners. These are the leading Russian and international companies, government bodies. The University has once again confirmed its positions in the QS Graduate Employability Rankings by entering the 301+ group. In 2018, the University ran 37th globally in the QS rankings in the Organization of Interaction between Employers and Students nomination by gaining 95.5 points out of 100.

56



57



Career Events

58



To improve the efficiency of student employment, NUST MISIS holds career events aimed at developing close ties with employers and obtaining the opportunity to gain feedback from the business community about the quality of preparedness of students. The Company of My Dreams project has been implemented since 2016 and allows students to visit Russian and international major companies for an excursion or internship to make a well-thought choice in building their careers.

CUP MISIS CASE

Career Days

Case Championships

Company of My Dreams



100

career events
are annually arranged
by NUST MISIS

Joint Projects with Business

Scholarship Programs

60



Green Metallurgy Center

NUST MISIS and PJSC Severstal, one of the largest vertically-integrated metals and mining companies globally, have entered into the cooperation agreement for implementing joint projects and creating the Green Metallurgy Center.

R&D Center of UC RUSAL is an example of public and private partnership

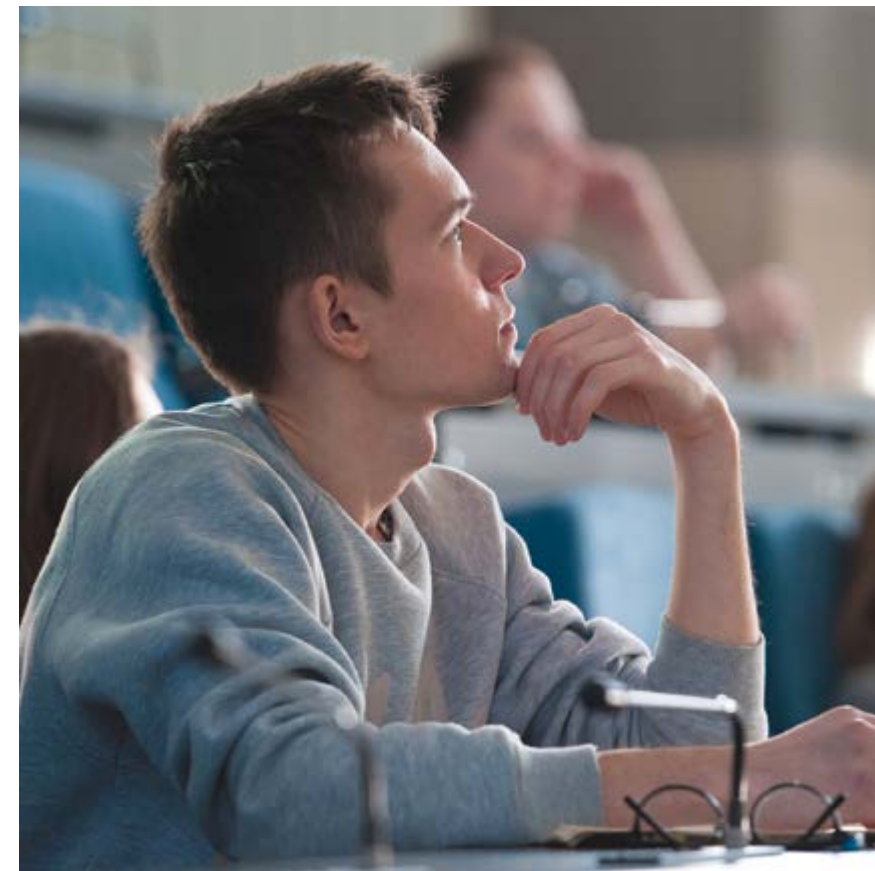
The College of Lightweight Materials & Technologies is Russia's first platform for joint scientific and research & development work aimed at the development of modern technologies established by NUST MISIS, UC RUSAL and members of the Aluminum Association.

Educational Cooperation

In the framework of a cooperation agreement, NUST MISIS and Mail.Ru Group realize joint educational projects, organize enlightening IT-events by Mail.Ru Group Experts.

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NUST MISIS offers more than 50 unique scholarship and grant programs. The largest scholarship programs are implemented jointly with key partners: Metalloinvest, UMC, SUEK, IBS, TMK, Giredmet, Rigaku, Eurochem, Norilsk Nickel, Rosatom, TVEL, etc.



50+
unique scholarship
and grant programs





National University of
Science and Technology

Moscow, 2019