



National University of
Science and Technology

NUST MISIS
**University of Science
and Technology**



While Preserving Traditions We Lead Ahead

FROM MGA TO NUST MISIS
100 YEARS
1918-2018
OPENING A NEW CENTURY

MISIS 
National University of
Science and Technology



Rector's Introduction

NUST MISIS is one of the most dynamically developing research & education centres in Russia, attracting well-trained entrants and hiring leading scientists and talented lecturers. Our University attaches special significance to the integration of science, education and innovations, as well as establishment of a creative eco-environment maximizing the capabilities of each student.

By implementing the integrated development strategy NUST MISIS has achieved impressive results in all areas of its activity, namely research, educational and extra-curricular ones. Several large-scale research projects have been launched at the University. A significant quantitative and qualitative growth of the number of scientific papers by NUST MISIS researchers has been recorded. The University has completed several large infrastructure projects, having created new highly innovative research laboratories and having completed the construction of the Centre for Industrial Prototyping of High Complexity and the reconstruction of the Commune House campus.

In cooperation with its business partners, as well as Russian and international leading universities NUST MISIS has developed and launched new joint educational programmes. Thanks to the current Occupational Navigation Programme aimed at attracting talented secondary school students, those graduating with honours and winning academic olympics, NUST MISIS has rolled out the most successful entrance campaign making it possible to become the 4th best technical university in Russia in terms of the quality of entrance. Extra-curricular activities of our students in various fields have been awarded high State honours.

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 confirmed its position in the THE World University Rankings and entered the TOP-100 universities in countries with actively developing economies of the world, compiled by Times Higher Education. The university has shown significant growth in the QS World University Rankings and in the QS World University Rankings by Subject in three areas: "Materials Science", "Physics", "Mechanical Engineering". NUST MISIS has also entered the ARWU-2018 Academic Ranking of World Universities and the TOP-100 of the ARWU Ranking by Subject in two directions: Metallurgical Engineering and Mining & Mineral Engineering.

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 not merely in Russia, but also in the world. This is due to a 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
Alevtina Chernikova

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About University



NUST MISIS Today

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9

colleges

6

branches

1

business school

1

representative office

4 000

employees

>1 000

doctors and candidates
of sciences

>17 000

students

24%

ratio of international
students

69

countries worldwide

1

common use centre

3

world-class engineering
centres

>30

research laboratories

NUST MISIS Colleges

**COLLEGE
OF NEW
MATERIALS &
NANOTECHNOLOGIES**



**COLLEGE OF
ENVIRONMENTALLY SOUND
TECHNOLOGIES
& ENGINEERING**



**COLLEGE OF
MINING**



**COLLEGE OF IT
& AUTOMATED
CONTROL
SYSTEMS**



**COLLEGE OF
INFORMATION
BUSINESS SYSTEMS**



**COLLEGE OF
ECONOMICS
& INDUSTRIAL
MANAGEMENT**



**COLLEGE
OF BASIC
PROFESSIONAL
STUDIES**



**COLLEGE OF
LIFELONG
LEARNING**



**COLLEGE
OF QUALITY
ASSURANCE
IN HIGHER
EDUCATION**



NUST MISIS History

2018

NUST MISIS is celebrating a century since the founding of its predecessor, the Moscow Mining Academy

2015

NUST MISIS entered THE World University Rankings and ranked 19th in 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 entered the THE, QS and ARWU subject rankings. The University took the 31st position in the QS subject ranking in «Engineering - Mineral & Mining» category, as well as the 76th position in the ARWU ranking by subject in «Engineering - Metallurgy» category

2014

NUST MISIS and MSMU amalgamation. The University entered the QS World University Rankings

2013

NUST MISIS was pronounced 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 NUST MISIS
is celebrating its 100th
anniversary**



NUST MISIS in World Rankings

2018 – 476
2017 – 501+



**QS World University
Rankings**

2018 – 54
2017 – 61



QS BRICS

2017 – 57
2016 – 63



**QS Emerging
Europe&Central Asia**

2018 – 601+
2017 – 601+



**THE World University
Rankings**

2018 – 99
2017 – 163

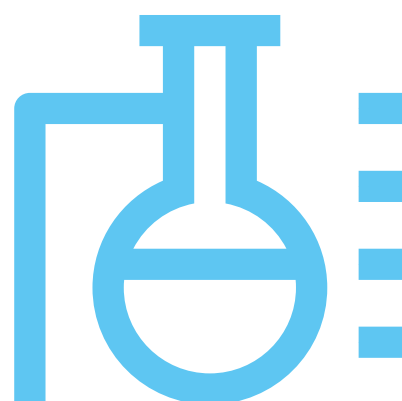


**THE Emerging
Economies**

2018 – 294+
**THE Best universities
in Europe**

2018 – 162

**THE International
Student Table**



NUST MISIS in World Rankings by Subject

12

2018 - 30

2017 - 31

↑ **QS World University
Rankings by Subject,
Mining Engineering**

2018 - 76+

2017 - 76+

**ARWU Global
Ranking of Academic
Subjects, Metallurgical
Engineering**

2018 - 201+

2017 - 251+

↑ **QS World University
Rankings by Subject,
Materials Science**

2017 - 220

2016 - 283

↑ **U.S. News Best
Global Universities
by Subject, Materials
Science**

2018 - 251+

2017 - 351+

↑ **QS World University
Rankings by
Subject, Mechanical
Engineering**

2018 - 351+

2017 - 451+

↑ **QS World University
Rankings by Subject,
Physics**

2017 - 401+

**THE by Subject,
Engineering and
Technology**

2018 - 451+

**QS World University
Rankings by Subject,
Natural Sciences**

2018 - 367

**QS World University
Rankings by Subject,
Engineering and
Technology**

Education



Admission Campaign

14



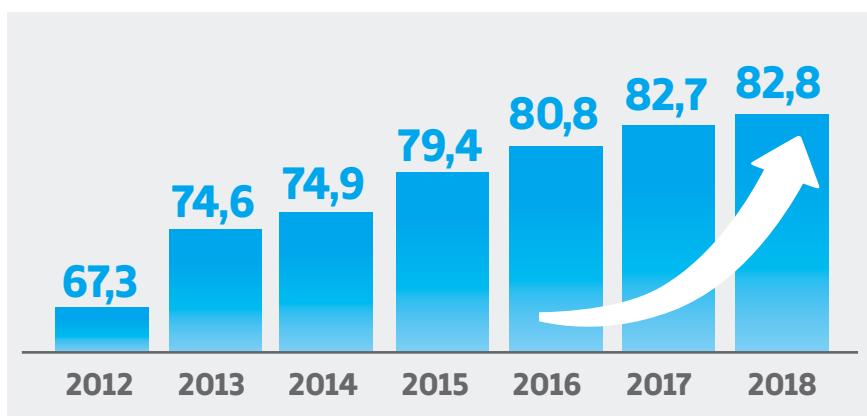
>50%

of students have
honored certificates



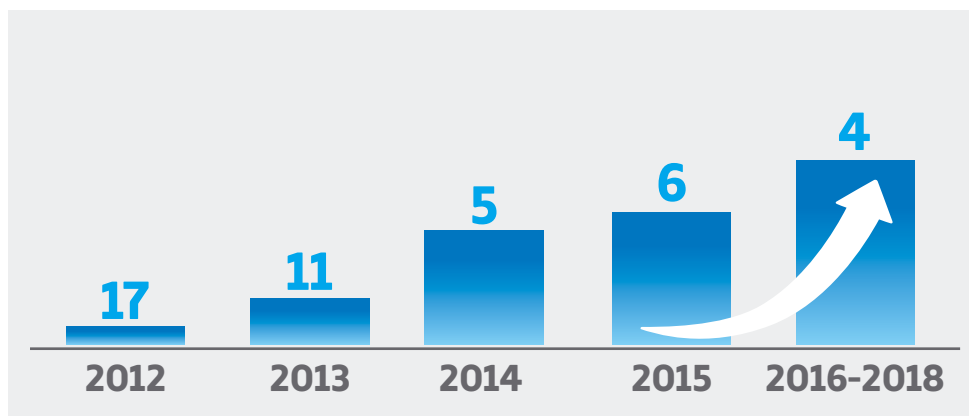
**The admission campaign
2018 became the most
successful over the past
several years:**

- the average score of the Unified State Exam increased by 15,5 points;
- the number of honored certificates has increased by 18%;
- the minimum passing score increased by 47 points.



**Average USE grade
growth**

Admission Quality Assurance



Technical universities, over 300 admission quotas

15

National University Ranking

11

Joint Ranking

2

Innovation

9

R&D

11

Internationalization



"... a hard work is to come, but the future is being created here and now, and the team formed at NUST MISIS can do it."

Arkady Dvorkovich

FIDE President, Chairman of the Skolkovo Foundation, Russian economist and politician

Professional Navigation Program

Moscow and Moscow Region

Russian regions

16

DOORS OPEN DAY	ENGINEERING CLASS AT MOSCOW SCHOOL	INDUSTRIAL PLACEMENTS FOR STUDENTS OF SECONDARY VOCATIONAL EDUCATION	PROJECTORY FORUM
OFF SITE OPEN DOORS DAY	UNIVERSITY SATURDAYS		EXHIBITIONS
EXHIBITIONS	TWO DAYS AT NUST MISIS	CULTURAL EVENTS Sports competitions Students` self- government Creative events	OFF SITE OPEN DOORS DAY
SCIENCE FESTIVAL	DREAM UNIVERSITY		OLYMPIADS, CREATIVE CONTESTS
CHILDREN`S UNIVERSITY	EXCURSIONS AND MASTER-CLASSES		ENGINEERING SCHOOL
PREPARATORY COURSES			TWO DAYS AT NUST MISIS
OLYMPIADS, TESTS, CONTESTS	ENGINEERING SCHOOL		EXCURSIONS AND MASTER-CLASSES
NUST MISIS ROBOCENTER	INTER-UNIVERSITY ACADEMIC NAVIGATION CENTER IN THE FIELD OF MINING & GEOLOGY		
FABLAB DIGITAL PRODUCTION			



Activities Abroad

OLYMPIADS AS PART OF COOPERATION WITH ROSSOTRUDNICHESTVO AND THE ASSOCIATION OF GLOBAL UNIVERSITIES

EXHIBITIONS

Moscow International Education Fair,
NAFSA
EAIE

**OLYMPIADS,
CREATIVE CONTESTS**

PREPARATORY COURSES

EXCURSIONS AND MASTER-CLASSES

ENGINEERING SCHOOL

**TUTORIAL WORKSHOPS
IN RUSSIAN LANGUAGE
FOR EDUCATORS**

Revealing and support of talented youth

OLYMPIADS

Joint Inter-University Mathematics Olympiad

Multidisciplinary Engineering Olympiad "Star"

Internet Olympiad in Physics

Open Chemistry Olympiad

National Technology Initiative Olympiad

Open IT Olympiad "Cognitive Technologies"

"MISIS light the stars"

English for Global advancement

"Become a professional in the field of IT"

Creative contests of design works named after A.A. Bochvar

"IT-planet"

"I am professional"

EDUCATIONAL CENTERS

Educational center "Sirius"

International Children's Center "Artek"

All-Russian Children's Center "Smena"

All-Russian Children's Center "Ocean"

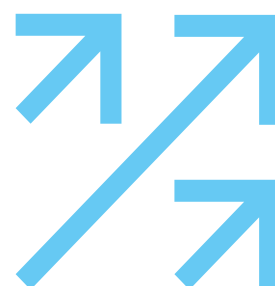
All-Russian Children's Center "Orlyonok"

Regional centers for support of gifted children

Center for youth innovation creativity

Kvantoriums

**JOINT RESEARCH ACTIVITIES
IN ENGINEERING SCHOOL WITH
NUST MISIS DEPARTMENTS
AND LABORATORIES**



Educational Environment

18

Essential Training

Based on the research infrastructure of the world's leading technological university, in close cooperation with advanced mining and smelting enterprises.

Project Activities

Training based on individual training and internship trajectories, business cases developed with the participation of partner companies.

Digital Environment

The possibility to gain knowledge online via NPOEd MOOCs, as well as continuous system interaction between those involved in the educational process and the University's Canvas system.

Academic Mobility

Study abroad at 300 partner universities within double degree programmes, academic internships and practices.



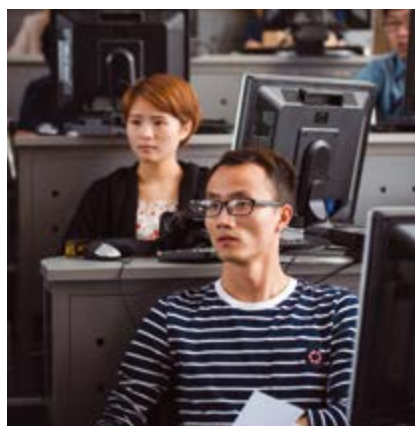
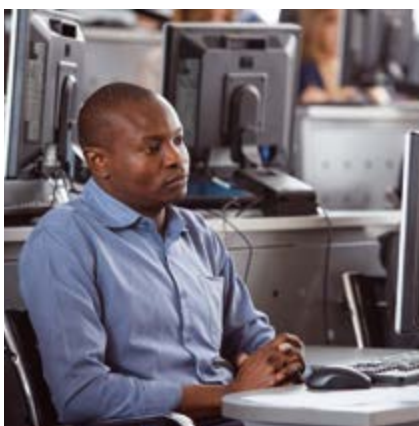


Installation Tree of Creativity
Designed by Juseppe Fallaccara and Fab Lab residents

Formation of English-Language Learning Environment

In order to attract potential students to Master's Degree programs NUST MISIS holds summer schools in the fields of materials science, IT and Russian language.

20



Summer Schools - 2018:

International Summer School for the study of Russian language in the NUST MISIS Engineering School framework

Summer School «Materials and Technologies» for the study of Russian language as part of the NUST MISIS Engineering School

9

**Master's Degree
Programs
Implemented at NUST
MISIS**

NUST MISIS at Educational Centre Sirius

22

A comprehensive program of professional navigation involves cooperation with the Sirius Educational center created by the «Talent and Success» foundation at the initiative of Russian President Vladimir Putin.

University's closed cooperation with Russia's leading educational centre is aimed at training of Russia's most promising students. In July 2018, for the second time, NUST MISIS together with Russia's leading metallurgical companies organized the «New Materials» category as part of the Big Challenges educational shift at the «Sirius» educational center in Sochi.

As part of the «New Materials» category, high school students worked to create unique industrial technologies and modern materials under the guidance of NUST MISIS's leading scientists.





Schoolchildren at the «New materials»
course by NUST MISIS

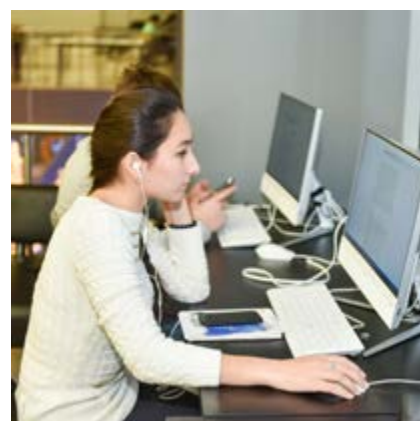


Online Education at NUST MISIS

NUST MISIS is a participant of the state priority project “The modern digital educational environment in the Russian Federation.”

NUST MISIS developed and launched 20 online courses on the NPOEd Platform (www.openedu.ru) its specialised disciplines: physical chemistry, materials science, engineering, etc.

25



56 000

**students of online
courses on
openedu.ru**

The number of students for NUST MISIS online courses on openedu.ru exceeded 56 000.

3

**among the most
popular courses**

The time-management course took 3rd place among the most popular NPOEd courses.

10 000

students at EdX

10 000 students signed up at the EdX Platform since the launch of 2 online courses.

#EdCrunch

NUST MISIS is ideologist and organizer of #EdCrunch, Europe's largest international conference on new educational technologies. Over the past several years, the Conference has become a large-scale event attracting leading Russian and international experts, representatives of educational institutions and business community to discuss new ideas and latest trends in the field of education.

26

The key topics of #EdCrunch2018 were transformation of education and universities in the digital age, big data collection and analysis and development of a global market for educational technologies, development of online courses within the framework of the priority project "Modern Digital Educational Environment in the Russian Federation", development of individual educational trajectories, evolution of the corporate training market.



#EdCrunch-2018
is 25 thousand
participants,
200 Russian and
international
speakers, 50 EdTech
companies.





>200

**More than 200 Russian
and foreign speakers
presented at the
conference**

Creative Environment

28

Infinite Science

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

Technology of Success

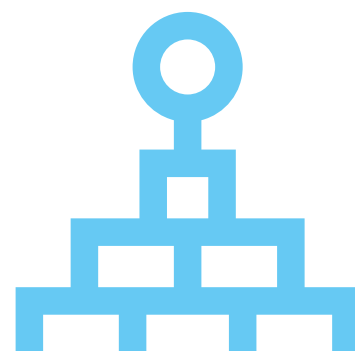
Meetings with famous NUST MISIS graduates and famous people who share the formula of their success with students and employees of the University. As part of the project lectures were delivered by D. Medvedev, A. Dvorkovich, A. Chubais, R. Vardanyan and many others.

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.

CultureLab

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.





МИСИ

Национальный
технологический

30+

Over 30 student
organizations

Continuing Education

30

Digital transformation of the mining and metallurgical complex

At the NUST MISIS Department of Automated Management Systems, advanced training courses for dispatching and administrative personnel of enterprises of the mining and metallurgical complex were organized. The program is dedicated to digital transformation of enterprises – replacing a person with a robot in complex technological zones. SUEK employees from different cities of Russia have become the first listeners. The courses were developed at the “Intellectual Mining Enterprise” research and educational center, created together with the university’s business partners – the VIST Group and SAP companies.



Strategic Management in Mining Field Enterprises, MBA programme

In 2017, NUST MISIS together with MGIMO University and a Non-Commercial Partnership for Mining Industry Development Assistance launched a top management training program for mining enterprises to train personnel management reserve for mining companies. In 2018, representatives of the state structures joined the MBA program: the Ministry of Energy, the Ministry of Environment, Rostekhnadzor, the State Reserves Committee. 20 future leaders of mining enterprises have entered the second training round of the MBA program



«Basics of non-ferrous metallurgy»

The NUST MISIS Institute of Lifelong Learning conducts professional retraining of specialists with higher or secondary vocational education in more than 30 courses. One of the key customers of the institute is PJSC MMC Norilsk Nickel. In 2018, a customized course “Fundamentals of Non-Ferrous Metallurgy” was held for top managers of Norilsk Nickel, using case studies from the production activities of the enterprise. As part of the partnership expansion, a video course is being created for all Norilsk Nickel employees to study without a specialized mining and metallurgical education.



Science



Publication Activity

Number of articles published together with Russian and international leading scientific organizations.

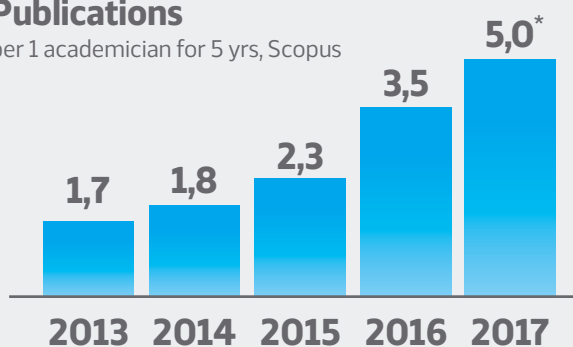
1st place

by the number of publications in the first quartile journals by SNIP

32

Publications

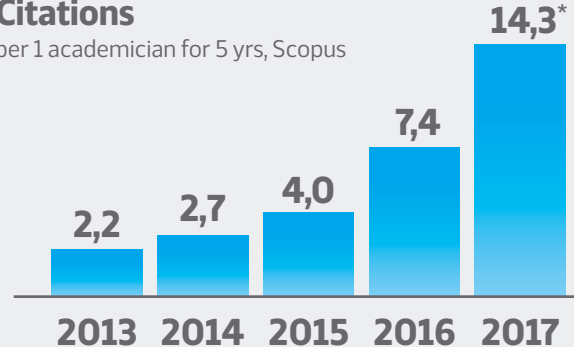
per 1 academician for 5 yrs, Scopus



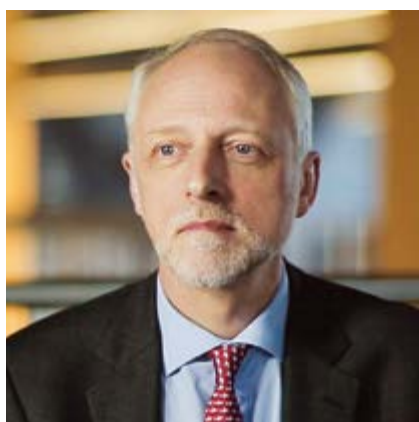
*as of October 2017

Citations

per 1 academician for 5 yrs, Scopus



*as of October 2017

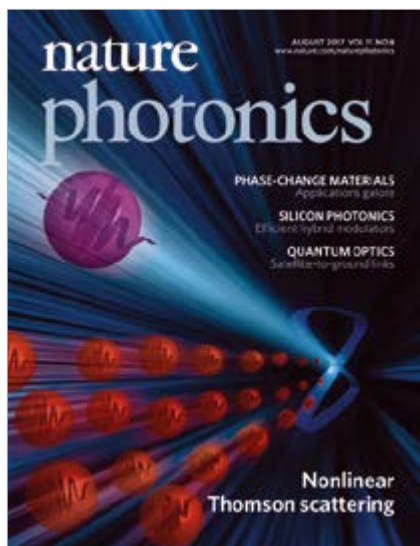


Lindsay Greer

Member of NUST MISIS International Scientific Advisory Council, Professor at 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 this areas may also be called advanced.”

Publications in the Leading Scientific Journals



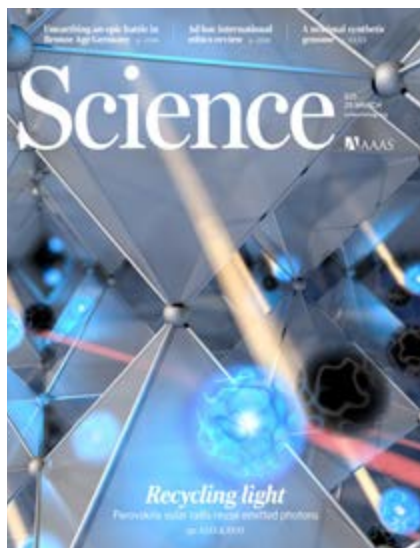
Nature Photonics



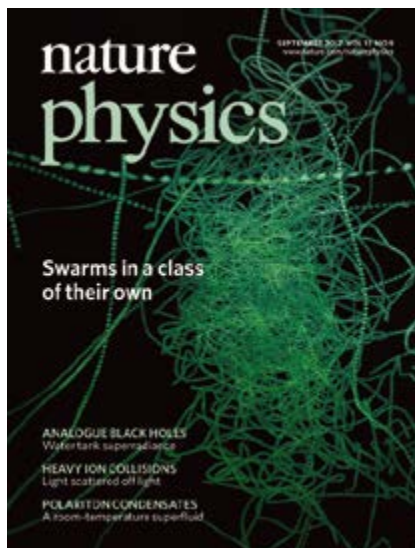
Nature Nanotechnology



Nature



Science



Nature Physics



Optica

NUST MISIS scientists publish articles in the most prestigious journals included in the TOP-1% of the SNIP. Articles were published in such journals as Nature Materials (A.N. Vasilyev), Chemical Reviews (A.S. Mukasyan), Science (S.V. Morozov), Nature Physics (K.B. Efetov, D.K. Efetov), and other highly-cited journals.



70

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

Leading Scientists

Today, more than 70 researchers who are among the most influential scientists in the world work at the university. Citation of research papers created at NUST MISIS has grown 14 times in the last 5 years. The chief of the Laboratory for Inorganic nanomaterials D.V. Golberg enters the TOP-100 of the most cited materials scientists in the world, and the Chief of the Laboratory for Functional Low-Dimensional Structures Sergey Morozov was awarded the Web of Science Awards in 2018 as the most highly cited Russian scientist in the «Physics» nomination.



D. V. Golberg

Professor, Chief of the Laboratory
for Inorganic Nanomaterials



S. V. Morozov

Professor, Chief of the Laboratory for
Functional Low-Dimension Structures

23

young scientists
gained international
PhD degrees

35



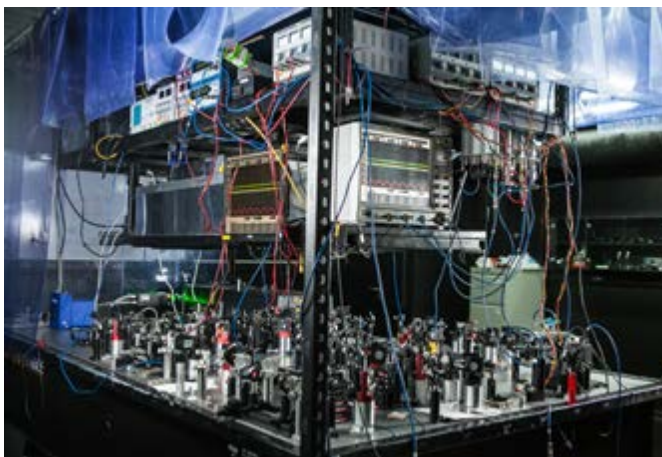
Jan van Ruitenbeek

Professor, Member of NUST
MISIS International
Scientific Advisory Council,
Leiden University

“I am very impressed with NUST MISIS’s dynamics of development. I think my university could learn the ways NUST MISIS makes decisions and implements ambitions plans.”

NTI Center for Quantum Communications

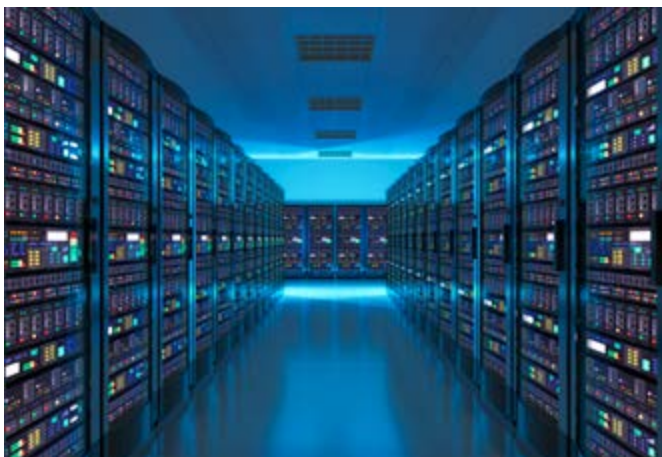
36



NTI Center for Quantum Communications

NUST MISIS has won the Russian Venture Company contest for the creation of a Center of National Technological Initiative for end-to-end Quantum Communication technology.

The aim of the new project is to develop quantum cryptography and a theory of quantum communications, as well as to train world-class specialists in this field. Two operating laboratories at NUST MISIS and a number of new labs have been included in the new Center. The consortium formed for the implementation of the project includes leading Russian educational and scientific organizations, small innovative enterprises.



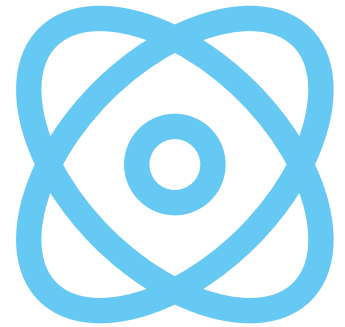
Big Data Analysis Center

NUST MISIS together with Naumen, one of the leaders of Russian IT market, have launched the Big Data Analysis Center. This project will allow to conduct scientific research, develop high-tech solutions, as well as implement educational programs for training of specialists of the future – experts in the field of big data.

10

labs are part of
NUST MISIS
Quantum Center

NUST MISIS Participation in MegaScience Projects



37

Since 2014, NUST MISIS has been developing cooperation with international research infrastructures of the MegaScience level. The NUST MISIS Center for Infrastructure Collaboration & Partnership MegaScience as well as the National Contact Point for Research Infrastructure of the EU Horizon 2020 program, which acts on site at NUST MISIS, are the project's keys.

In September 2017, NUST MISIS and CERN signed agreement which assigns the specific duties of all participants of the SHiP (Search for Hidden Particles) experiment. As well as, the University has signed two memorandums on cultural and scientific cooperation with other participants of the SHiP experiments: INFN and the University of Naples Federico II (UNINA).

A new step in expanding cooperation was the launch of an educational program developed jointly with CERN and international educational centers. The course for undergraduate students of Russian universities is interdisciplinary at the interface of high energy physics, materials science and the sciences of big data. Successful graduates of the program will have the opportunity to continue working on CERN projects, including the LHCb and SHiP experiments.

4

**MegaScience projects:
Horizon 2020,
MoEDAL,
LCHb,
SHiP**



“We hope that the laboratory at NUST MISIS will play a key role choosing the emulsion for the SHiP experiment, since the university has a wealth of experience in diagnostics, as well as an excellent choice of testing equipment. We are confident that the university is the right place for achieving the targets set.”

Andrey Golutvin

Head of NUST MISIS Centre for Infrastructure Cooperation and Partnership with MegaScience, Professor of Physics, Professor of the Department of High Energy Physics, Imperial College

Recognition and awards

38



The best metallurgist of the country

Alexander Komissarov, Chief of the NUST MISIS Research Laboratory for Hybrid Nanostructured Materials, has been named the winner of the annual «Metallurgist of the Year» award. His project “A New Cold- and Corrosion-Resistant Grade of Pipe Steel” (“SeverCorr” project) has been highly appreciated by the jury and declared the winner in the “Metal Chemistry” category.

Moscow Government Award

Two groups of NUST MISIS’s young scientists have won Moscow Government Awards for 2017. PhD Alexander Bykov and a PhD student Ksenia Kuzmina have received awards for the «Energy efficiency and energy saving» nomination for the development and research of radiation-stimulating elements with increased service life. Darya Sidorenko and Pavel Loginov, both PhD students, have received an award in the «Advanced industrial technologies» nomination for the development of a new generation diamond-cutting tool with nanomodified ligaments and hybrid working layers.

The master’s degree students of NUST MISIS won IV Annual All-Russian Competition for Scientific and Technical Projects “Innovative Radioelectronics”



Inventions and Innovations

The University's scientific developments were awarded at international exhibitions.

**Archimedes-2018
(Moscow)**

4 gold



**Innova-Barcelona
2017**

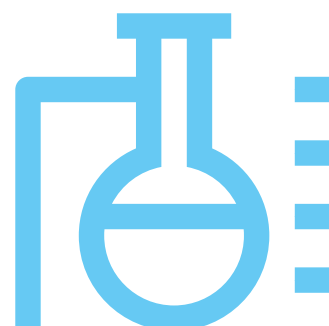
2 gold



1 silver



**6 innovations of NUST MISIS
scientists are among Top-100
Russian Inventions**



International Scientific Advisory Council

In 2018 NUST MISIS International Scientific Advisory Council (ISAC) continued its work uniting the world's leading scientists from eight countries, namely Great Britain, Germany, the USA, Israel, Canada, Russia, Sweden and the Netherlands. NUST MISIS International Scientific Advisory Council is one of the most successful practices within the Russian Academic Excellence Project.

40



The main discussion items on the agenda were the prospects for the development of strategic academic units (StrAUs), commercialization of NUST MISIS technologies and examination of applications within open international competitions.



Centre for Industrial Prototyping of High Complexity

In June 2017 the Centre for Industrial Prototyping of High Complexity was officially opened at NUST MISIS. The official ceremony was attended by Arkady Dvorkovich, Formet Deputy Prime Minister of the Russian Federation, Olga Vasilyeva, Minister of Education of the Russian Federation, as well as chief executives of leading Russian companies, business partners of NUST MISIS. The Centre will become a unique high-tech digital lab for our country, that is capable of completing a full cycle of innovation development. The size of the created object may vary from 1 micron to 20 m.

As part of the center's launch, NUST MISIS has signed cooperation agreements with Vnesheconombank, RUSAL, Matador Group, Moscow Higher School of Engineering.

41



Andrey Sebrant

Director of Product Marketing
at Yandex

«I can definitely say that what I have seen today at NUST MISIS laboratories is fascinating. Both materials scientists and engineers have a great future. Materials science hides breakthroughs for many fields».

Extra-Curricular Activities



Student Organizations

Joint Student Council

University Council

Residence Hall Complex Council

Trade Union

Scientific Society

Student Business Club

Student Design Bureau

KVN

Sports Clubs

Tourist Club

International Friendship Club

Volunteers Association

MISIS Media

Student Career Center

Student Mentors Union

Historical-patriotic Club "Steel"

International Cooperation

44



The African Student Union at NUST MISIS

International Friendship Club (IFC) includes students from 25 fraternities and 69 countries worldwide. The club helps foreign students to adapt quickly, find new friends, improve their knowledge of the Russian language, and prepare for exams.



Student Office

The reconstruction of the premises for the NUST MISIS Student Office, which is a part of the creation of a comfortable environment for studies and creativity, has been finished. This is a place where students can get help on issues related to the educational process and get social support. The unified center for administrative services for students operates on the «one window» principle. The e-admission includes united online services, scholarships for and social support of students, questions related to dormitories, educational unites, etc.

The creation of the Student Office went through several stages and took the best practices of Russian and international universities into account. Further development of the Student Office will simplify many current procedures and help students to more effectively use their time for studies, sports, creativity, and the implementation of their ideas and projects.

45





1

In the Moscow ranking of student organizations, NUST MISIS United Council of Students took the 1st place in two nominations at once: “Involvement in co-management” and “Logistical support”.

Student Self-Administration

The development of student self-government at NUST MISIS was highly appreciated at the All-Russian competition of student practices in the field of educational quality, conducted by Rosobrnadzor. According to the results of evaluation of 50 various projects and initiatives submitted to the jury by student government bodies from 20 subjects of the country, NUST MISIS has won the 1st place in the «The best organization of the work of the student commission on educational quality» nomination. The “Open Rectorate” project, which has been implemented at the university since 2012, was also highly appreciated.



Maker Faire Moscow

Maker Faire Moscow 2018, the largest international festival where the latest technologies and traditional crafts meet, was held through support of Gorky Park and the Garage Museum. NUST MISIS FabLab was the organizer of the event. In just three years, the festival has grown from a mini-format to a city-wide event gathering thousands of visitors and international stars of the maker movement from Europe, the U.S. and other countries.

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NUST MISIS FabLab, the ideologist and the organizer of the Russian Maker Faire Festival, is Russia's first laboratory for digital production and the only one certified by MIT.

70 000

**people participated
at the Maker faire
Moscow-2018.**



Program “New Level 4.0”

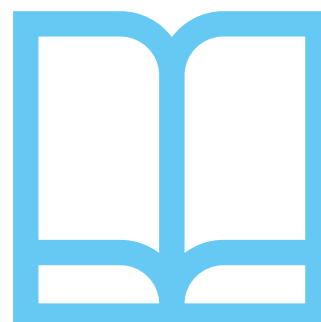


49

A high position of NUST MISIS in the QS rankings in terms of cooperation with business is one of the results of the program. In 2018, the «New Level» program was recognized as the best student leaders preparation program in Russia.

Training of leaders for Student Self- Administration

The objective of the program is to develop students' motivation for an active life position, key competencies and skills that will prepare them for future employment.



Volunteer Movement

50



1500

More than one and a half thousand NUST MISIS students volunteered in more than 300 events on university, city and federal levels.

Most of the volunteer projects are implemented jointly with the University's business partners. "Ginger expo" and "Christmas garland" are held at the Cancer Centre named after N. N. Blokhin jointly with OMK, and the patronage for the children's social-rehabilitation centre in Kolomna – with EVRAZ.

NUST MISIS students are involved in volunteer movements and large-scale all-Russian projects: visits to orphanages and correctional residential care homes, work with veterans, visits to cities of military glory, and work with high-school students.

NUST MISIS has received a letter of thanks from the President of the Russian Federation V.V. Putin for active preparation and conduct of the All-Russian «Immortal Regiment» campaign.



Opening a New Century!

From MMA to NUST MISIS

In September 1918, the Moscow Mining Academy, NUST MISIS's successor, was created by the decree of the Council of People's Commissars.

Created in tough for the country times, the Moscow Mining Academy not only became a platform gathering country's best personnel but it also embodied human aspiration for the future. Many graduates of the University are legends of Russian scientific community, others have become well-known statesmen, organizers and leaders of various sectors of domestic industries.

Today's University is well-deserved successor of its glorious predecessors. NUST MISIS is a modern, dynamically developing University which actively cooperates with both Russian & international academic community, and business partners.

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The Meeting of Generations

A unique 2018's major event «Meeting of Generations», dedicated to the centenary of Moscow Mining Academy which is the predecessor of NUST MISIS was held in September, 2018. The event held at Gorky Park gathered over 100000 guests: representatives of government bodies, scientists, professors, employees, alumni and other NUST MISIS friends. The bright program of the festival included a costume parade of students of three universities-successors of the Moscow Mining Academy, greetings from the country's top officials, University's partners and cosmonauts from the ISS, exposition about the history and present of the University, and much more. A special «Retro-zone» for rest and communication was equipped for veterans. Famous Russian music bands brought to the close the event.



NUST MISIS together with key partners presented a number of professional navigation platforms



100 000

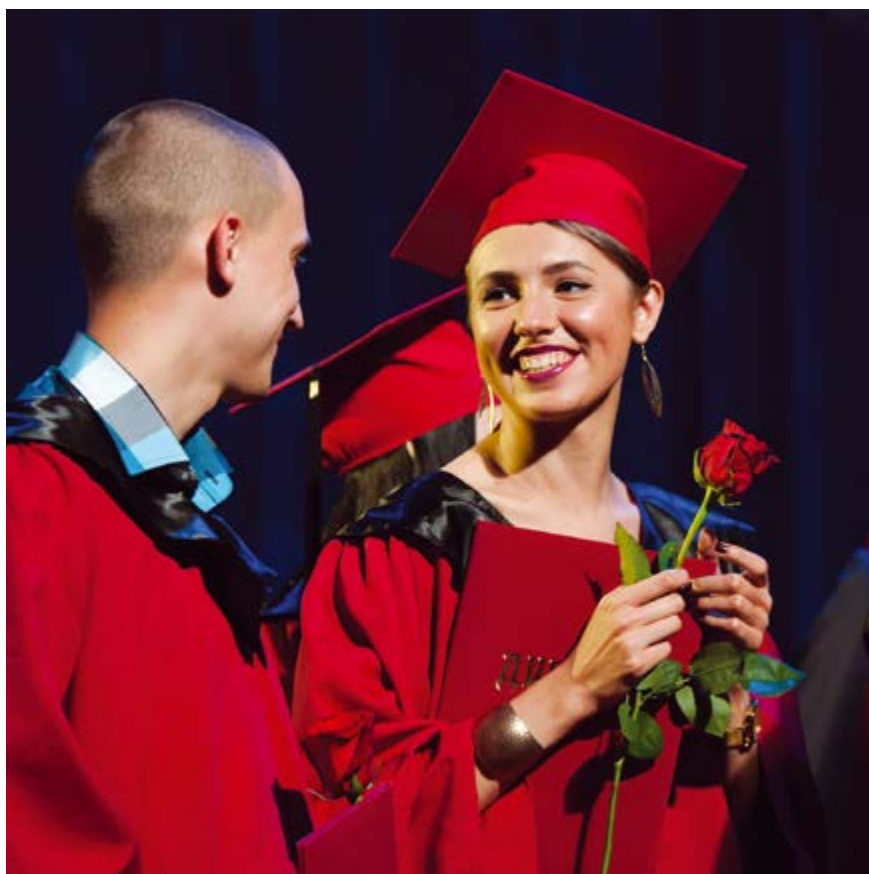
The Meeting of Generations gathered over 100000 people

Endowment Fund



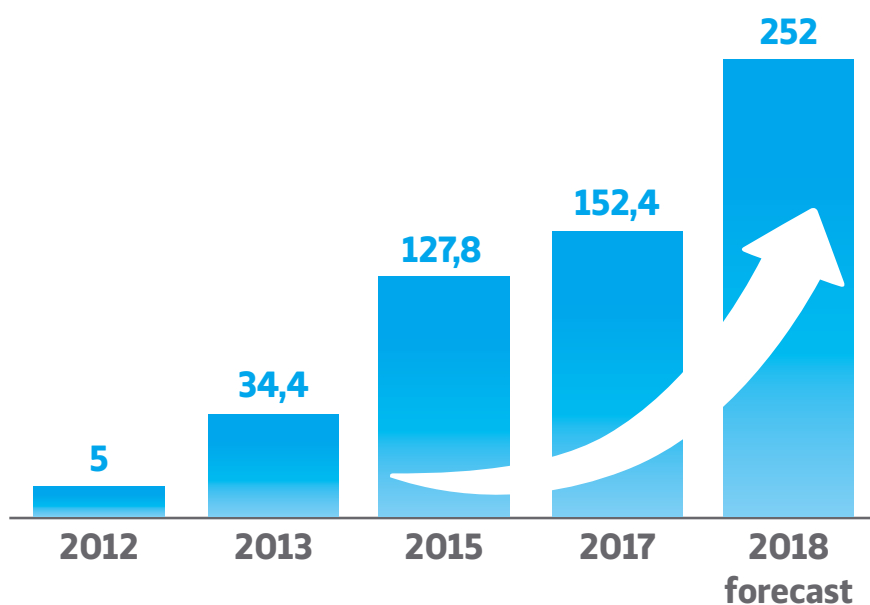
Endowment Fund

54



The NUST MISIS Endowment Fund is made up of more than 500 benefactors and 18,000 people in the alumni community, and has helped launch 45 implemented projects aimed at the development of educational and research activities, and participation in the development of the University's infrastructure and creative environment.

Among those projects are the #EdCrunch international conference in the field of new educational technologies, the «Student of the Year» and «Professor of the Year» competitions, free breakfast for students, and an annual scholarship grant program designed to support the best students and young scientists. The Fund's activities are donated from University alumni and individuals, as well as investments from business partners.



Cooperation with Business

СУР MISIS CASE

ВСЕРОССИЙСКИЙ ИНЖЕНЕРНЫЙ ЧЕМПИОНАТ



Business Partners

NUST MISIS partners with over 1600 companies. Over 1200 of them provide students with internships and practical works. University business partners are the leading Russian and international companies, state bodies.

56



ГАЗПРОМБАНК



ДЕЛОВЫЕ ЛИНИИ

Panasonic



Schlumberger





Career Events

58



Career Days

Every week the University holds career meetings with employing companies and business partners. During the events students have a chance to get information about current job opportunities, communicate with successful business community representatives, participate in master classes and be selected for internship programs.

Case Championships

The University holds three types of case championships: specialized company championships (AIR LIQUIDE, EVRAZ, EVROCHIM, etc), industry based championships (in the fields of mining and metallurgy), and the all-Russian case championship CUP MISIS CASE, which attracted more than 1 000 participants from 56 Russian universities.

«My Dream» Company

An example of the University's cooperation with business partners is the organization of regular students' visits to production sites of leading metallurgical and ore dressing enterprises. The "Company of My Dreams" project provided students with the opportunity to get acquainted with the operation of Cherepovets Steel Mill, Oskol Electrometallurgical Plant, Lebedinsky GOK, Stupino Metallurgical Plant, etc.





100

around 100 career
events annually

Joint Projects with Business

RUSAL R&D Center - Example of Public-Private Partnership.

60

Institute of Light Materials and Technologies is Russia's first platform for joint research & scientific projects for development of modern technologies by NUST MISIS, RUSAL and member of the Aluminium Association.

Cooperation with the leader of the banking sector

Vnesheconombank and NUST MISIS established the Centre of Competencies for New Materials and Breakthrough Technologies with a primary focus on blockchain, convergent and quantum technologies. The generation of knowledge about innovative technologies, the development of platforms for their use and the training and popularization of those fields are the centre's main goals. This is the world's first centre having such competencies, and the main consumer of its services will be Russian state-owned companies and authorities.

Laboratory "Perspective Precision Materials"

NUST MISIS and METKON, one of the world's best manufacturers of high-precision equipment for processing various types of materials, opened the research & education laboratory "Perspective Precision Materials" for sample processing and research of precision materials. The laboratory researchers will develop technology for the creation of finely-dispersed high-permeability powders for the production of miniature technical devices.



4

educational & research centres with leading manufacturers of research equipment: National Instruments, INSTRON, BUEHLER, METKON

Scholarship Programs

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



61



50

unique grant and
scholarship programs



НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ ТЕХНОЛОГИЧЕСКИЙ



MISIS

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Moscow, 2018



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