



UNIVERSITY OF TECHNOLOGY



Dear friends!

Our University celebrated the 20th original anniversary in 2018. It is just a real quick for the history but for us it is a lifetime full of anxiety, hopes and creation. In a short span of time the University of Technology has grown into a thriving centre for education and research in the Moscow region. For the second year in a row our University is included in the TOP-100 best universities of Russia according to RANKING.

In my opinion our success is really great. But, as the saying runs, it is impossible to stop progress. Our world is constantly changing and there is no room for leisure or stop over and in order to comply with the spirit of the time, we should pool both human and material resources. The University continued prosperity can be reached only by joint creativity of academics, students and administrative staff. And I am sure that only together we will succeed in implementing a lot of ambitious projects.

Let me thank all the friends of our University, assisted in its formation and development, the teaching staff and of course our talented students and alumni for the high results achieved!

We sincerely hope to see at our University all those who understand that the successful career depends on to a great extent on the appropriate educational establishment choice and of course our doors are open for the foreign partners, interested in the cooperation in educational and research sphere!

Tatyana Startseva
Rector of University of Technology
Ed.D., professor



About us

The University of Technology is a young, being on the rise, university. It is located in the Moscow region, the city of Korolev - a cradle of the Russian astronautics and the largest science city in Russia. The university has been successfully performing educational and research activities since 1998 and is guided by the latest achievements in these spheres.

In a very short space of time the University of Technology has achieved considerable success, having risen through the ranks of the non-state educational institution to the state university. The established educational, research, international and extracurricular activities allowed the University of Technology to be included in the TOP-100 best higher education institutions of Russia in 2018 and 2019 (RAEX ranking).

The University of Technology is one of the largest state universities of the Moscow region. The university campus consists of 6 academic buildings and 2 dormitories – all within walking distance from each other. There are 4 institutes, 2 colleges and Children's Techno- Park "Quantorium" at the University of Technology. The higher education institution has 26 departments and 14 of them are established at the leading enterprises of the region and aimed at the students' practice-oriented training. The university offers 50 majors for bachelor, master and postgraduate degrees. The university library owns more than 1,300,000 pieces of print and electronic editions on any themes. Vast auditoriums, equipped with the necessary facilities, contribute to the development of the students' creative skills.

More than 6,000 students are enrolled at the University of Technology, including about 600 foreign students from 11 countries. The teaching staff totals 350 members, 80% of them have academic degrees and ranks.

In 2015 on the basis of the University of Technology the Regional Science and Education Cluster «North-East» was set up. The cluster, located in the north-eastern part of the Moscow region, has formed a unified science and education space for

covering the needs of the high technology enterprises with the qualified professionals.

The university is also a member of three clusters: the Federal Interregional Cluster «Composites without borders», established on the territories of the Moscow region, the Republic of Tatarstan and the Saratov region; the Moscow region Electrical Engineering Cluster "Electrical Engineering XXI" and Innovation Territorial Cluster of Nuclear-Physical and Nano-Technologies (Dubna).

Within close collaboration with the enterprises of real economy, the Engineering Center "High - Temperature Composites" with modern laboratories, equipped with the latest higher-precision facilities, was set up in partnership with JSC "Kompozit" at the University of Technology. In the Center the students, postgraduates and JSC "Kompozit" leading specialists research and develop new hi-tech materials for their further use in rocket science.

The small innovation enterprises, the Department of Youth Science Development, the Student Scientific Society and the Student Design Office have been established at the University.

Every year the University of Technology becomes a platform for various scientific events, including international and regional scientific and practical conferences.

There are 3 academic periodicals at the University of Technology. 2 of them are included in the list of scientific issues, approved by the State Commission for Academic Degrees.

The University of Technology is actively involved in social and economic development of the Moscow region. The students of the higher education institution are regular participants of various ecological forums, volunteer movement, sports and cultural events both of the city and the region.

The internationalization of education is an integral part of the University of Technology

international activity. At present, more than 45 international agreements are signed with foreign universities around the world. The University of Technology is an active participant in ERASMUS+ mobility program.

Academic mobility is also implemented within the bilateral agreements with foreign universities.

The University of Technology is registered in the ANABIN database, an international system of higher education institutions' recognition, having "H+" status. This status allows the university graduates to nostrify their diplomas in EU and apply for the European research and educational grants.

Based on the annual higher education institutions' annual monitoring, held by the Ministry of Science and Higher Education of the Russian Federation, the University of Technology was recognized as an effective higher education institution by all indicators.

The University of Technology immediate plans are aimed at the technical majors expansion, the deepening of scientific cooperation with the space industry enterprises and the collaboration broadening with foreign partners in educational and research sphere.



University of Technology -

Future starts here!

University of Technology is included in the
TOP-100 best higher education institutions of
Russia for the second year in a row (RAEX-Ranking)





Number of students \approx **6000**

More than 60 fields of education and specialties



80% of academic staff have academic degrees and ranks

26 departments, including 14 specialized departments



6 academic buildings and 2 dormitories

Library - 1,300,000 pieces of print and electronic editions on any themes



UNIVERSITY OF TECHNOLOGY

HIGHER EDUCATION

SECONDARY VOCATIONAL EDUCATION





Faculty for Information and Communication Systems and Technologies

Faculty for Rocket Space Technology and Machine Engineering

Bachelor Degree

◆ Applied Mathematics and Computer Science

Profile: Programming Software Development, Mathematical Simulation

◆ Information Systems and Technologies

Profile: Information Technologies in Engineering Systems

◆ Applied Computer Science

Profile: Applied Informatics in Management Systems

◆ Information Security

Profile: Information Securing and Protection Technology; Information Analysis Systems for Financial Monitoring

◆ Control in Technological Systems

Profiles: Control and Information Technologies in Space Systems; Information Technologies for Rocket Measuring Equipment

◆ Design-Engineering Support of the Machinery Production

Profile: Engineering and Technology

◆ Mechatronics and Robotics

Profile: Mobile Robotics Systems

◆ Quality Management

Profile: Quality Management in Engineering

◆ Innovation Studies

Profile: Innovation Management in Industry

Specialist Degree

◆ Radioelectronic Systems and Complexes

Specialization: RadioElectronic Systems in Space Complexes and Radio Electronic Competition

◆ Design, Production and Operations for Space Engineering

Specialization: Rocket and Space Products Manufacturing and Technological Processing

Master Degree

- ◆ Applied Informatics
- ◆ Information Security

- ◆ Quality Management





Institute for Project Management and Engineering Business



Bachelor Degree

◆ Management

Profile: Logistics

◆ State and Municipal Management

Profile: State and Municipal Service

◆ Sociology

Profile: Social Structure, Social Institutions and Processes

◆ Psychology

Profile: Counseling Psychology

◆ Social Work

Profile: Social Service

◆ Advertisement and Public Relations

Profile: Public Relations and Communicative Technologies

◆ Service

Profile: Industrial Service

Specialist Degree

◆ Economic Security

Specialization: Economic and Legal Support for Economic Security

Master Degree

◆ Management

◆ Design

◆ Psychology

◆ Economics

*Profiles: Accounting, Analysis and Audit
Banking
Enterprise and Business Economics
Finance and Credits*

◆ Business Informatics

Profile: E-Business

◆ Trading Business

Profile: Business Activities

◆ Design

*Profiles: Fashion
Environment Design
Graphic Design*

◆ Customs

Specialization: Logistics and Customs

◆ Sociology

◆ Logistics

◆ Hi-Tech Industries Organization and Management



Institute for International Education

Bachelor Degree for foreign citizens (full-time studies)

- ◆ **Information Systems and Technologies**
Profile: Information Technologies in Engineering Systems
- ◆ **Applied Computer Science**
Profile: Applied Computer Science in Management Systems
- ◆ **Quality Management**
Profiles: Quality Management in Mechanical Engineering
- ◆ **Innovation**
- ◆ **Economics**
Profiles: Enterprise and Business Economics
Finance and Credit
Accounting
- ◆ **Management**
Profile: Logistics
- ◆ **State and Municipal Management**
Profile: State and Municipal Service
- ◆ **Commerce**
Profile: Business Activities
- ◆ **Business Informatics**
Profile: E-Business
- ◆ **Service**
Profile: Industrial Service
- ◆ **Sociology**
Profile: Social Structure, Social Institutions and Processes
- ◆ **Social Work**
Profile: Social Service
- ◆ **Advertisement and Public Relations**
Profile: Public Relations and Communicative Technologies
- ◆ **Psychology**
Profile: Counseling Psychology
- ◆ **Design**
Profiles: Fashion
Environmental Design
Graphic Design

Bachelor Degree for foreign citizens (extramural studies)

- ◆ **Quality Management**
Profile: Quality Management in Mechanical Engineering
- ◆ **Economics**
Profiles: Finance and Credit
Enterprise and Business Economics
- ◆ **Management**
Profile: Logistics

Master Degree

- ◆ **Quality Management**
Profile: Quality Management Economic Factors and their Assessment
- ◆ **Psychology**
Profile: Organizational Psychology

Nostrification

The University of Technology is registered in the database ANABIN, the international system of universities' acknowledgement, having "H+" status. This status allows the University graduates to nostrify their diplomas in EU countries, participate in the competitive tenders for European research and educational grants and obtain employment in foreign companies.



Institute for Supplementary Education

Programs for Skills Development and Professional Retraining in Various Areas

- Programming Languages
- Business Education
- Web-Design (Corel Draw, Photoshop, 3D Max)
- Professional Design and Modelling
- Crowdfunding
- Family Counseling
- Economics and Finance
- Accounting
- Management
- Marketing and PR
- Psychology and Pedagogics
- State and Municipal Management

Additional General Developmental Programs

- ◆ Russian as a Foreign Language
- ◆ Drawing, Sketchnoting, Fundamentals of Painting
- ◆ Stained Glass Painting Basics (Decra Led Technology) (Great Britain)

Short-term Seminars, Trainings, Master-Classes, On-Line Courses, Corporate Training

Creative Development Programs

University School «UNITECH»

In addition, we are developing new educational programs at the customer request.
Forms of study: full-time and part-time with the use of modern distance, digital and interactive technologies.

Address of Institute for Supplementary Education is
Moscow region, Korolyov city, Oktabriskay street 10a, room №11.
Contacts: +7(495) 516 – 99 – 32; +7(495) 516 – 05 – 15



Structural Divisions – Secondary Vocational Education

Space Engineering and Technology College

The college was founded in 1947 at the proposal of Sergey Korolyov, the principal designer of aerospace technologies. The educational establishment has a vast experience in training of the mid – level specialists for the rocket – space complex industries

Specialties

- ◆ Information Security
- ◆ Electronics Assembling, Maintenance and Repairs
- ◆ Prosthetic, Orthopedic and Rehabilitating Technologies
- ◆ Product, Process and Service Quality Management
- ◆ Informational Systems and Programming (by industry)
- ◆ Mechatronic and Robotics (by industry)
- ◆ Metal Processing Technology
- ◆ Engines, Vehicle Aggregate Systems Maintenance and Repair
- ◆ Spacecraft Production
- ◆ Economics and Accounting (by industry)
- ◆ Law and Social Security Management

Technology and Design College

The college was founded in 1930 and trains in-demand specialists, constituting a significant part of the Russian industrial enterprises human resources.

Specialties

- ◆ Design (by industry)
- ◆ Banking
- ◆ Graphic Design
- ◆ Garments Design, Modeling and Technology
- ◆ Household and Communal Services



Specialized Departments



JSC «Tactical Missiles Corporation»

SPECIALIZED DEPARTMENTS
 «Corporate Financial Accounting»
 «Information Systems and Technologies for Design, Production and Management»

KB KhimMash named after A. Isaev

SPECIALIZED DEPARTMENT
 «Aerospace Engine Technology»



JSC «NPO Measuring Equipment»

SPECIALIZED DEPARTMENT
 «Information Technologies for Rocket Telemetry»

JSC «Komposit»

SPECIALIZED DEPARTMENTS
 «Quality Management and Research in the Field of New Materials and Technologies»
 «Economics and Management of Production»



NII CB named after A. Maximov

SPECIALIZED DEPARTMENT
 «Management and Information Technology in Space Systems»

State owned Federal State Institution «Chief Scientific Metrology Centre» of
 Ministry of Defense of the Russian Federation
 SPECIALIZED DEPARTMENT
 «Metrological Support for the Product Quality»



JSC «Sberbank»

SPECIALIZED DEPARTMENT
 «Banking»

Institute of Machine Science, Russian Academy of Sciences

SPECIALIZED DEPARTMENT
 «Space Technology»



Administration of Korolev City

SPECIALIZED DEPARTMENT
 «Social Research»

Research Institute of Commodity Flow and Wholesale Market Conjuncture

SPECIALIZED DEPARTMENT
 «Logistics»



Holding Company JSC «Novo»

SPECIALIZED DEPARTMENT
 «Information Security»

LLC «Radio automatics»

SPECIALIZED DEPARTMENT
 «Development and Production Technology for Electronic Component
 Base and Electronic Modules»





Scientific Activities



Research and Technological Development

More than 100 million rubles for R&D projects in the field of new materials and technologies have been raised over the last 5 years

University annual scientific conferences

- ◆ College student conference «Start to Science»
- ◆ Student conference «Efficient Use for the Region Resources»
- ◆ International student conference «Science, Culture and Youth»
- ◆ Graduate students scientific and practical conference «Student Science»
- ◆ Postgraduate students conference «Innovation Aspects for the Region Social and Economic Development»
- ◆ International social and scientific readings, dedicated to the memory of Yuri Gagarin «Space exploration and Society»

R&D Projects for business and government:

- ◆ JSC «Kompozit»
- ◆ Ministry of Investment and Innovation of the Moscow region
- ◆ Ministry of Education of the Moscow region
- ◆ Advanced Research Foundation
- ◆ GK «Roskosmos»
- ◆ Administration of city Korolev

Scientific Publications

- ◆ 3 academic periodicals, 2 – included in the Higher Attestation Commission
- ◆ More than 5,000 scientific publications over the last 5 years

Postgraduate Education

More than 120 postgraduates

Engineering Center «High Temperature Composite Materials»

12 R&D completed projects for the last 5 years

Youth Science

- ◆ **Student Research Society (more than 100 students)**
Student research abilities development
- ◆ **Student Design Engineering Bureau**
(the winners of Worldskills, RoboFinist, RoboFest, Skolkovo, etc. competitions)
 - Industry heat power engineering
 - Rocket modeling
 - Robotics
 - Composites



Engineering Center



- ◆ Development of technology for manufacturing complex-shaped preforms of carbon, silica, quartz, aramid fibers for polymeric, carbon-carbon and ceramic composites on radial braiding machine with a split body and movable supports
- ◆ Braiding process simulation and control systems
- ◆ Carbon-PEEK products manufacturing
- ◆ Continuous carbon fiber and PEEK products manufacturing
- ◆ Pyrolytic BN, SiC, HfC CVD, CVI Technologies for electronic industry
- ◆ Analyzing composites' porous micro structure on automated standard porosimeter 3.2 with PRT software

Structural divisions

- ◆ Laboratory for Advanced Materials Heterogeneous Synthesis
- ◆ Laboratory for CVD, CVI Technologies
- ◆ Laboratory for New Methods of Composite Materials Forming
- ◆ Laboratory for Numerical Simulation Software Systems
- ◆ JSC «Kompozit» Specialized Department «Quality Management and Research in the field of New Materials and Technologies»

Center activities

- ◆ Development of new recipes, forming the methods and technological processes for obtaining high-temperature polymeric, ceramic matrix and metal matrix composites
- ◆ Development of industrial technological processes for manufacturing products of a certain shape and composition
- ◆ Engineering and analytical support for R&D activities, including research of materials porous and micro-structure composition



International Activity

Over 45 agreements with foreign universities have already been concluded, including networking agreements and academic exchange within the Erasmus+ program.

Exchange Program

Every year the students, postgraduates, academic and administrative staff actively participate in exchange programs with the foreign universities within the bilateral inter-institutional agreements, EC exchange program Erasmus+ and exchange programs of the Ministry of Science and Higher Education of the Russian Federation.

Joint research and educational projects are being implemented within Jean Monnet and Capacity Building Projects (Erasmus+ program)

◆ Visiting professor

Foreign partner-universities leading professors visit the University of Technology for delivering lectures and seminars, exchanging the best practices and developing the joint projects in various spheres of activity.

International conferences

Annual international research and practical internet-conference «Innovation Technologies in Modern Education»
Annual international research and practical conference «Future Trends, Organizational Form and Effectiveness of Cooperation Development between Russian and Foreign Universities»

International Events

- ◆ Festival of National Cultures
- ◆ International Friendship Club
- ◆ Russian and Japanese Friendship Club

How do we support

- ◆ Consultancy and support services
- ◆ Buddy-program
- ◆ Accommodation
- ◆ Integration measures/international events

International Open Olympiad for School Students

The Olympiad is held every year on the following disciplines: mathematics, physics, informatics, social science, Russian language, English language. Representatives of the CIS countries, regions of the Russian Federation, municipalities of the Moscow region participate in the Olympiad. Over – 5 000 participants.





QUANTORIUM

(Children's Techno-Park)

Children's Techno-Park «Quantorium» is an innovative environment, aimed at developing children's inventive, creative, critical and efficient thinking.

Children enrollment, participating in supplementary educational programs, is more than 1,000 people per year.

Educational Courses

- ◆ CosmoQuantum
- ◆ Robotic Quantum
- ◆ IT-Quantum
- ◆ Nano Quantum
- ◆ Industrial Design
- ◆ Hi-Tech Quantum

Functional Zones

- ◆ Hi-tech – specialized educational and training workshop
- ◆ Quantums – laboratories for natural science and technical studies
- ◆ Lecture hall
- ◆ Project activity zone
- ◆ Chess sitting room
- ◆ Interactive museums of science

Implemented Programs

- ◆ Engineering Vacations
 - ◆ Specialized Sessions
 - ◆ Open Days
 - ◆ Master Classes
- Over 6,000 people visit Children's Techno-Park every year**

Achievements

The Children's Techno-Park's students are the winners and prize winners of all-Russian, regional and municipal competitions (contests), such as Quantoriada, WorldSkills Russia, WorldSkills Hi-Tech. Quantorians are regular participants of the Moscow International Education Fair, Science Exhibitions in Skolkovo, project sessions in "Artek" and "Orlenok" camps.

Implemented projects

- ◆ Piloted Moon runway complex
- ◆ Control of cosmonaut's panel by means of MYO-interface
- ◆ Controlled lunar rover for driven beacons placement
- ◆ «Solar Office»
- ◆ «Smart Garage»
- ◆ «Smart Blinds»
- ◆ Spacecraft Object Control («Smart Glove»)
- ◆ Puzzle «Moscow Region»

Quantorium is open for scientific and technological cooperation within joint projects, Engineering vacations, competitions, contests and providing the opportunity for distance learning at Quantorium



WorldSkills

International non-commercial Movement

Goal - to increase the prestige growth for vocational professions and vocational education development by harmonizing the best practices and professional standards worldwide through holding the professional skill competitions.

Worldskills Championships take place in many countries worldwide and may be considered as the greatest event in the sphere of professional development and raising the standard of young people proficiency in various fields of activity.

University of Technology is a regular Worldskills movement participant

- ◆ **University is a venue for the Interuniversity Worldskills championships in the following competences : "Space systems engineering", "Information cable networks", "Software for business", "Entrepreneurship" , etc.;**
- ◆ **University's students are the winners of international, national and regional championships.**

Only for the last two years the University students have won 8 prizes at the Russian and International WorldSkills Championships in the following skills:

- ◆ Reverse Engineering
- ◆ CNC Milling
- ◆ Composite Technologies
- ◆ Industrial Design
- ◆ Graphics Design





- ◆ **University of Technology is a basic higher educational institution of REGIONAL SCIENCE AND EDUCATION CLUSTER «NORTH-EAST»**
- ◆ **University of Technology is a member of THE INTERREGIONAL INDUSTRIAL CLUSTER «COMPOSITES WITHOUT BORDERS»**
Participants: State Corporation «Rosatom», 20 industrial enterprises of the Moscow, Saratov regions, the Republic of Tatarstan, 5 universities
- ◆ **University of Technology is a member of INNOVATION TERRITORIAL CLUSTER OF NUCLEAR PHYSICS AND NANOTECHNOLOGIES in Dubna, Moscow region.**
Participants: resident enterprises of the FEZ «Dubna», JSC «Kompozit», University of Technology and other enterprises of the Moscow region
- ◆ **University of Technology is a member of ELECTROTECHNICAL INDUSTRIAL CLUSTER «ELECTRICAL ENGINEERING XXI»**
Participants: 15 industrial enterprises of the Moscow region, University of Technology

- ◆ **International Aviation and Space Salon(MAKS)**
- ◆ **Moscow International Education Fair (MIEF)**
- ◆ **WorldSkills Russia**
- ◆ **Moscow Region Governor's Award «Nashe Podmoskovie»**
- ◆ **Moscow Region Forum «I am a Citizen of Moscow Region»**
- ◆ **All Russia safe energy festival «It's Brighter Together»**
- ◆ **Gagarin Readings**
- ◆ **Interregional Youth Forum «Development Vector»**
- ◆ **All Russia Forum «Mentors»**
- ◆ **Strategic Initiative «Personnel of Future for the Region»**
- ◆ **Master-classes «Road to Stars» with the astronauts participation**
- ◆ **Festival «Student Spring»**
- ◆ **Volunteer Activity**
- ◆ **Moscow Region KVN League**
- ◆ **Various thematic exhibitions**



Extra-Curricular and Social Activities

University Traditions



- ◆ **Fresher's Day**
- ◆ **Festival of National Cultures**
- ◆ **Student Creativity Festival**
- ◆ **Russian Students' Day**
- ◆ **Solemn Award Ceremony «Golden Section»**
- ◆ **Mister and Miss University Competition**
- ◆ **The Memory Watch Dedicated to the Victims of Great Patriotic War**
- ◆ **Meeting with the Great Patriotic War Veterans**
- ◆ **Photo exhibition dedicated to the Victory in the Great Patriotic War «Know... Remember... Proud»**
- ◆ **Excursions to the «Golden Ring» cities of Russia and war memorable places of the Moscow Region**
- ◆ **Korolyov KVN League's Games**
- ◆ **Youth Activists Health – Improving Camps**
- ◆ **Fresher Alley Laying**
- ◆ **Report concert of the University creative teams**



Extra-Curricular and Social Activities

Student Teams

- ◆ UNITECH KVN League
- ◆ Theatre school
- ◆ Dancing Studio
- ◆ Vocal Studio
- ◆ Student Chorus
- ◆ Music Instrumental Group
- ◆ Student Newspaper «Youth Format»
- ◆ Technology and Design College Fashion Theatre

Student Clubs

- ◆ Student Council
- ◆ Patriotic Club
- ◆ Psychology Club
- ◆ International Club
- ◆ Debating Club «Civic Platform»
- ◆ Recreational Mathematics

Student Sport Clubs

- ◆ Chess Club «White Rook»
- ◆ Basketball Club
- ◆ Mini – Football Club
- ◆ Volleyball Club
- ◆ Table Tennis Club
- ◆ Hand-to-Hand Fighting Club
- ◆ Cheerleading Club



Contacts

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Admission Board (Institute for International Education)

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Space Engineering and Technology College

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Technology and Design College

Address: 141070, Moscow Region, Korolev, Stadionnaya Street, 1

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