

Moscow Polytechnic University: Sustainable Development

Building on its unique ecosystem, advanced infrastructure, and extensive partner network, Moscow Polytech contributes to sustainable development by preparing highly qualified professionals and generating breakthrough research and technological innovations.

– [Moscow Polytechnic University Development Program for 2025–2036](#)

Mission and Strategic Goals

Moscow Polytech is one of Russia's leading engineering universities, a flagship of project-based learning in the country, and an active participant in the "Priority 2030" strategic academic leadership program.

Our Mission

Predicting trends, we build and develop an open platform that brings together educators, researchers, developers, engineers and students to create useful products, relying on the trust of our partners.

Our Strategic Goals

- 1 To ensure the commercialization of highly market-ready products and technologies, while promoting the development of new industries.
- 2 To introduce a new STEAM-based model of engineering education aimed at achieving technological leadership and disseminate it through higher education, continuing education, and professional retraining programs.
- 3 To facilitate the transition to a success-oriented corporate culture and transform the university's human resources structure.
- 4 To increase productivity in research and education by 20% through the adoption of artificial intelligence technology.

We are developing the university as an R&D center where research, engineering, workforce training, and cooperation with industrial partners are integrated into a single strategy. Our priority is not only to deliver technological solutions, but also to educate a new generation of engineers — versatile professionals capable of overseeing the full product lifecycle, from concept to production and market entry. Through practice-oriented education and direct industry engagement, we are creating the human capital foundation for key sectors of the Russian economy.

— [Vladimir Miklushevsky](#), Rector of Moscow Polytech

Integrated Sustainable Development System

Moscow Polytech is a leader in engineering and STEAM education:

A magnet for talented individuals, working with partners to solve specific engineering problems, guided by **six key values**:

- Process Management
 - Long-Term Vision
 - Ambition
- Openness to New Ideas
- Constructive Interaction
- Personnel Development

Key areas:

Active engagement in addressing the environmental, socio-economic, and governance challenges faced by modern universities and society, in alignment with national priorities and the international framework of the UN Sustainable Development Goals (SDGs).

Implementation of the university's three key missions:

Integration of education, research, and high-tech industries, alongside collaboration with society to deliver projects that generate public benefit.



Integrated Sustainable Development System

We are committed to the principles of sustainable development and has incorporated policies in research, education, and corporate governance into the "Priority 2030" development program. The University integrates the national development goals of the Russian Federation and the Sustainable Development Goals into its institutional environment.

We educate future professionals, develop technologies, and introduce new products in line with national technological leadership priorities across key industries:

robotics, digital transformation, new mobility, biotechnology, energy storage, cybersecurity, semiconductors, and nuclear energy.

Presidential Decree No.529 dated June 18, 2024 "On approval of priority areas of scientific and technological development and the list of critical knowledge-intensive technologies":

#1 High-efficiency and resource-saving energy

#2 Preventive and personalized medicine and the promotion of healthy longevity

#5 Intelligent transport and telecommunication systems, including autonomous vehicles

#7 Climate change adaptation, conservation, and the sustainable use of natural resources.



Education



The STEAM Model of Engineering Education: Creating an Ecosystem for Training Technological Leaders

An interdisciplinary approach to education combined with project-based learning in collaboration with industrial partners

The new model is a system for developing critical thinking, creativity, innovation, and engineering skills to solve specific technological challenges, **a full-cycle model for engineering education and training.**

The new STEAM-model:

(S)cience
(T)echnology
(E)ngineering
(A)rts
(M)ath

The Arts component incorporates a creative approach, design thinking and user experience (UX) design enabling the development of **technologically advanced products** that are attractive to end users.

Product-Oriented Schools:

- Advanced School of Technological Leadership "FDR" – autonomous transportation systems and electric mobility (since 2022);
- School of Engineering Design (since 2025);
- School of Engineering Chemistry (launching in 2026), Schools of Manufacturing Technologies and Visual Communications (currently under development).

We've reimagined the traditional approach to engineering education around three core principles: the deep integration of AI into all stages of development; the delivery of integrated projects with leading industry partners where students work on real industrial challenges; and the development of an entrepreneurial mindset, so that graduates are capable not only to create technologies, but also to bring them to market.

engineers,
technologists

technology leaders – "developers" of technologies for the national projects of technological leaderships: design and research engineers and technology starters

bringing products and technologies to market

Educational Programs

Aligned with today's realities and help address challenges related to industrial development and the formation of the talent base needed for an economy driven by **sustainable and innovative technologies**.

Geared toward the knowledge economy and focus on the economics of high-tech industries, supporting the professional and managerial development of specialists in high technology and **the innovation economy**.

**Transportation, Engineering, and Logistics | Technology, Materials, and Manufacturing | IT
Urban Studies | Art, Design, and Media | Business | Ecology and Life Technologies**

In-demand graduates include highly qualified environmental experts, biotechnologists, engineers, designers, and developers who create products and technologies that support the **development of sustainable systems across various sectors** of the economy while remaining **aligned with environmental priorities**.

We are in the National Graduate Employability Rankings – 2026, including in sustainable development fields

- ✓ No. 3 – Industrial Ecology and Biotechnology, Technosphere Safety and Environmental Management, Chemical Engineering (Bachelor's/Specialist's Degrees)
- ✓ No. 5 – Technosphere Safety and Environmental Management (Master's/Residency)
- ✓ No. 8 – Materials Technology (Bachelor's/Specialist's Degrees)





Educational Programs Aligned with Sustainable Development

*Moscow Polytech offers **in-demand educational programs in sustainable development**, including those focused on environmental protection, environmental management, and industrial ecology. We train specialists with in-demand competencies that enable them to implement sustainable development principles in various economic sectors. Few programs see below. The full list is available on the [website](#).*

13.03.01 Thermal Power Engineering and Heating Engineering

16.04.03 Refrigerating, Cryogen Equipment and Life-supporting Systems

20.03.01 Technosphere Safety (bachelor's degree)

- Environmental and Industrial Safety
- Environmental Biotechnologies

20.04.01 Technosphere Safety (master's degree)

- Environmental safety in industry
- Labor Supervision and Inspection

27.03.02 Quality Management

- Quality Management in Industry

Project-Based Learning

Moscow Polytech is implementing [a project-based learning approach](#). In 2025, [nearly 300 projects were implemented](#), some of which were related to sustainable development values.

The Educational aspect:

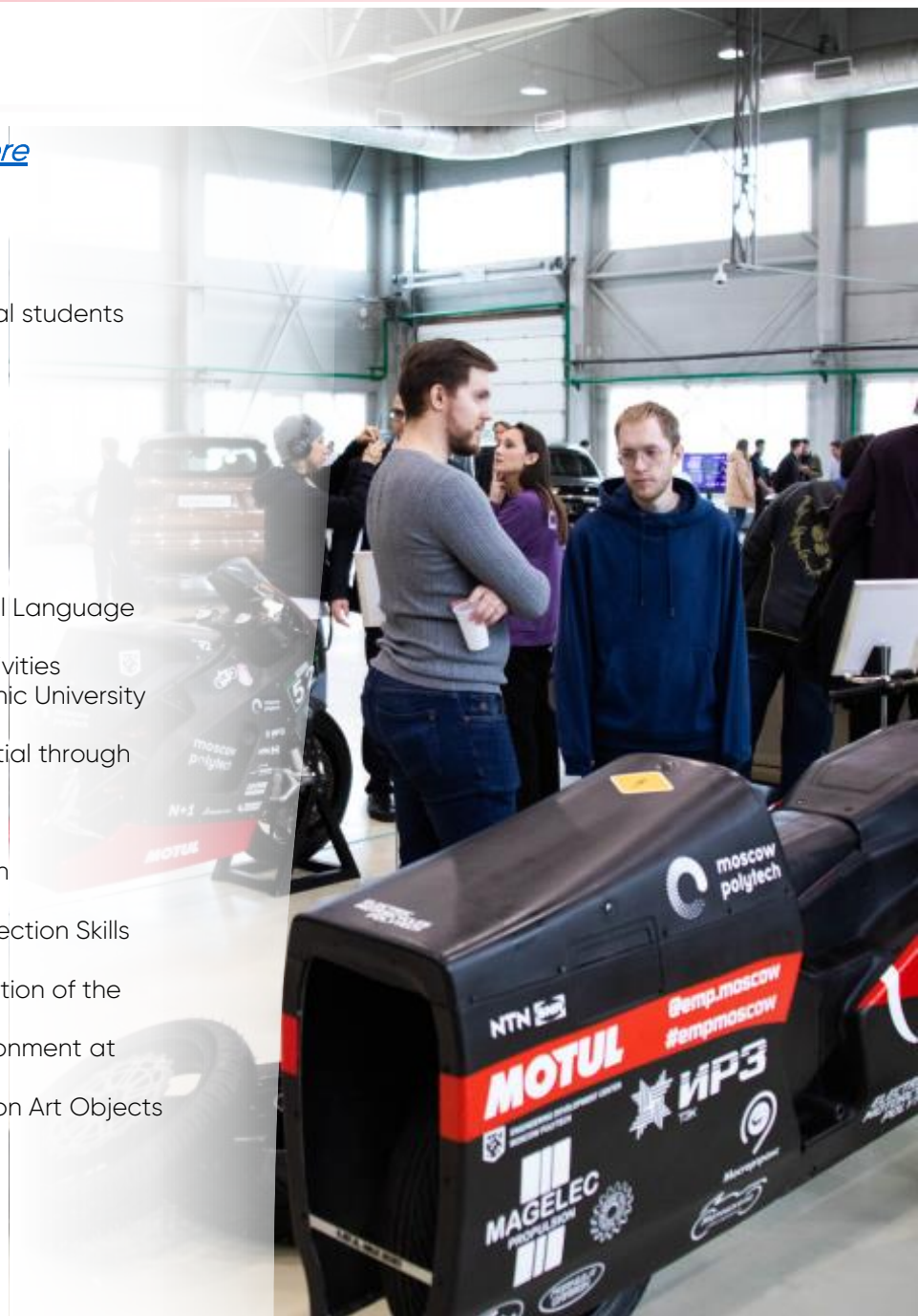
- CAD Lab. VR-concept
- CAD Lab. Design and Analysis Bureau
- CAD Lab. Engineering Software Development
- CAD Lab. Animation Studio
- CAD Lab. Digital Prototyping Studio

The Ecological aspect:

- Biocompatible Ion gels for Medical Sensors
- CAD Lab. Non-destructive Testing
- CAD Lab. C3D
- Modular Molds for Manufacturing Polymer Products
- Development of Biotechnology for Soilless Cultivation of Medicinal Plants
- Development and Implementation of Durable Coating Technology for Subway Cars
- Improving the Biotechnology of Veterinary Immunobiological Drugs
- Creation of a 3D Simulator for Commissioning Tests on A Equipment
- Flange Connection for Thermal Loads
- Human Ecology
- Project "P"
- CG-2026. TIM Models of Moscow Polytechnic University
- Solid-fuel Electric Generator

The Social aspect:

- Buddy. Development of a program for international students
- "Heroism Must Be Remembered"
- "My Little Homeland" Magazine
- "Exponacia" Game for Individuals with Disabilities
- Internet Safety Publication for Children
- Competency Maps for Graduates
- Moscow Polytechnic University Cultural Code
- Technological Entrepreneurship Laboratory
- Moscow Longevity
- "MIMO" Board Game
- «Imagine-Quest" Board Game for Developing Oral Language Skills for Children with Disabilities
- "Investment Path" Board Game on Investment Activities
- Description and Visualization of Moscow Polytechnic University Business Processes
- Improving the Enterprise's Human Resource Potential through the "School, University, Enterprise" Model
- Admissions Campaign
- Working with Talented Students
- Development of Continuing Professional Education
- Development of Youth Policy
- Development of Initiative-Building and Social Projection Skills among Students
- Sociological Monitoring and Analysis of the Evaluation of the Teaching Staff's Effectiveness
- Formation of a Pre-Professional Educational Environment at Moscow Polytechnic University Polytechnic
- CIM. Creative Christmas Tree Decorations Based on Art Objects



Continuing Professional Development in Sustainable Development

Human capital development is one of our six core values. It fosters continuous professional growth and helps build a highly qualified team capable of delivering innovative projects. We offer employees and external learners the opportunity to take part in professional development and retraining programs.

Moscow Polytech Center for Continuing Professional Development:

- 250+ educational programs;
- Free training on federal and regional projects;
- Customized program development;
- Professional speakers and renowned specialists;
- 24/7 application acceptance;
- On-site training;
- Flexible training schedule;
- Approved certification.

Retraining Programs

- Public and Municipal Administration
- Educational Organization Management
- Marketing and Business Management
- Business Process Management
- Human Resources Management
- Public and Municipal Administration
- Industrial and Civil Construction

The Moscow Technical School project with a continuing professional education program "Development of Digital Twins": to provide enterprise employees with training in new technologies to support the city's industrial development and enhance production efficiency.

Professional Development Programs

- Organization of Project-Based Learning Activities at the University
- Organization and Administration of a Multifunctional Center at the University
- Organization of the Admissions Committee at an Educational Institution
- Effective Management at the University
- Academic Tutor
- Building a System of Interaction with Corporate Partners
- Implementation of a Key Performance Indicator System at an Educational Institution
- General Issues of Occupational Safety and Health Management Systems
- Business Process Management
- Investment Project Management

"Digital Departments" Project



The "Digital Departments" project, part of the "Priority 2030" program since 2022, focuses on new digital competencies in IT.



Target audience: full-time and part-time undergraduate students in their 2nd-4th years, specialist students in their 3rd-4th years, and first-year Master's students.



A second qualification in IT, in addition to a qualification in their primary specialization.



A comprehensive assessment of digital competency development on the Innopolis University platform; the basics of language syntax; database design for a specific subject area; and an introduction to the fundamentals of software testing and modern tools for collaborative development in a team.

Six new IT educational programs in the 2025/26 academic year.

2,100+ students from 12 educational institutions in the 2025/26 academic year

"Digital Multimedia Content Design" for 250+ students majoring in Journalism and Publishing in collaboration with partners, including Union of Journalists of Russia, Russian Book Union.



Science and Research, Technological Leadership



We prepare future-ready professionals who will shape the culture, legacy, and next chapter of engineering in Russia!

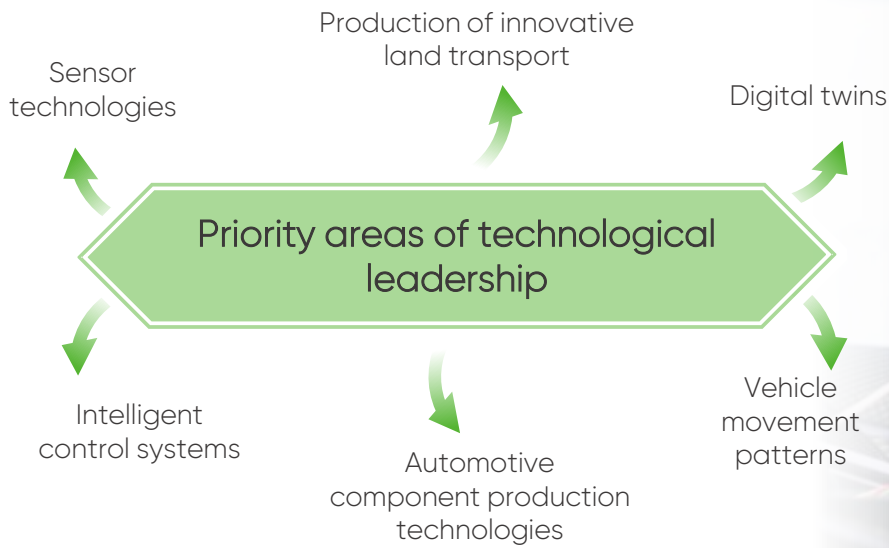
Goal: To bring high-readiness products and technologies to market while driving the growth of emerging industries.

Moscow Polytech is **a key player in advancing the transport industry** and addressing today's evolving challenges.

Focus areas: autonomous mobility, the transition to electric transport, safety systems, smart urban infrastructure, innovative business models, digital simulation, regulatory frameworks, talent development, import substitution, and technological sovereignty.

The economic pillar of sustainable development is the creation of long-term value.

- **We invest in research and development** with strong commercial promise and meaningful social impact.
- **We help businesses reduce their environmental footprint** and accelerate the shift toward sustainable production and consumption.





The Advanced Engineering School of Technological Leadership FDR

A new innovation-driven school for training research engineers, tech entrepreneurs, technologists, and designers in high-potential fields, including strategically important sectors of the economy such as the automotive industry, IT, engineering, aerospace, and other industries.

A fully-scale project office where students, engineers, and industry partners develop technologies for everyday life. Its laboratories provide the production capabilities required to deliver both in-house university projects and large-scale initiatives for industry partners.

Strategic technology projects – a modular platform for compact electric vehicles and localization of automotive components.

We are creating more than just a car — we are building a showcase of what we can do, what our students are capable of, and how these technologies can be applied in the future. We made the decision to develop Russia's first hybrid sports prototype. In just three years, we not only built the vehicle but also learned how to create new technologies. The high-quality data we collected will provide a strong foundation for applying artificial intelligence in future developments.

— **Pablo Iturralde**, Director of the Advanced Engineering School of Technological Leadership FDR



The project to create the first hybrid sports prototype (FDR12)

FDR12 was presented in 2025, with 70% of its components sourced from Russia, many of them manufactured within the university.



Electric car project

The L7 category electric vehicle, as part of a new mobility concept that includes smart cities, sustainable energy, and digital infrastructure, is designed for urban use – for students, young families, city services, car-sharing, and delivery services.

Objective: to create a comfortable, affordable four-seater vehicle, including for people with disabilities.

Key feature: focusing exclusively on Russian key components.

Partners:



Research Center NTI (National Technological Initiative)“Autonet”

The university's developments contribute significantly to advancing Russia's technological sovereignty while fostering an ecosystem of electrified and autonomous mobility.

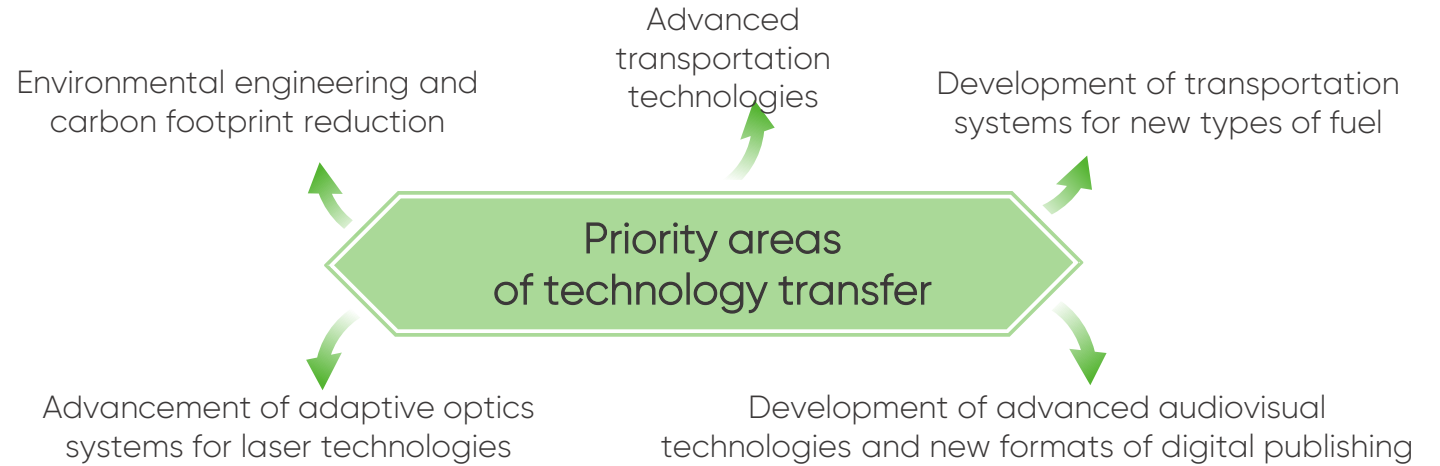
- Develops and manufactures electric vehicles based on a full-cycle production model and promotes **the market for innovative transportation solutions in line with sustainable development** principles by offering socially significant solutions.
- [Participates](#) in expert communities and industry collaborations, while cooperating with technical committees and specialized organizations to establish **a unified regulatory and technical framework for the AutoNet market** and to develop proposals for improving the legislative environment that supports the implementation of advanced smart mobility technologies.

Strategic partners:

- [KAMAZ PJSC](#) (joint projects in electric transport and workforce training)
- [Avtotor](#) (development of urban electric vehicle manufacturing)
- [Mercator Holding](#) (electrified platforms for municipal and utility special-purpose vehicles)



Technology Transfer Center



An ecosystem created to support technology transfer and entrepreneurship:

- R&D revenue (per 1 academic staff): 43-fold increase from 2022 to 2024
- R&D revenue: 5-fold increase from 2020 to 2024
- 7 know-hows
- Acceleration programs: 2,930 participants
- Entrepreneurial competency training: 1,398 students

The number of publications increased by 70% from 2020 to 2024.

Grant System and Researcher Support

Few projects supported through the **Academician V.E. Fortov Grant Competition** are related to sustainability themes:

- [AI-based energy grid management systems](#) designed to optimize energy system operations, reduce fuel consumption, and minimize transmission losses, particularly for large-scale urban heating and power supply systems.
- [Bicycle gearboxes](#) aimed at improving reliability and durability, reducing maintenance costs, and increasing the attractiveness of cycling for the public – both for sports and tourism, as well as for everyday commuting, thereby reducing pressure on urban infrastructure.
- [Modular robotics systems](#) for teaching children intelligent transportation management and smart mobility principles.
- [Sensors](#) for protecting vehicles from overheating, enhancing passenger comfort, improving transportation operating conditions, and contributing to a better urban environmental situation.
- [The "Technical Systems Modeling" area](#): "A Navigator in the World of Books for Blind Children" with the goal of creating a database of books for visually impaired and blind children, including voice annotations and a voice-guided navigation system to help children navigate the world of literature.

Support through the P.L. Kapitsa grant:

- A [sustainable system](#) for removing lactose from dairy products has been developed that could provide an affordable solution for people with lactose intolerance and the food industry ([Innovative Food Science & Emerging Technologies](#)).



Social Support, Healthcare and Well-Being



Corporate Social Responsibility

Business processes are structured to meet labor market workforce demands, support employees and students, ensure high-quality education and research, and generate a positive impact on society as a whole.



Human Capital Development

A comfortable and safe environment is being created, including cybersecurity measures, as well as conditions and opportunities for self-realization and talent development combined with effective learning, teaching, work, and entrepreneurship.



Psychological Support Service

Professional support for students and staff aimed at promoting social and psychological well-being: individual psychological counseling, training sessions, thematic lectures/discussions, socio-psychological surveys, assessments, and testing.



Care for Students, Employees, and Partners by fostering a lean and client-oriented management culture through:

- ✓ simple and fast access to services ([Multifunctional Center](#), "one-stop shop";
- ✓ an efficient information exchange system (including with [partners](#));
- ✓ a mother-and-child room and dedicated spaces for short-term childcare.



Student Engagement in University Governance through close interaction between university leadership, the student council, volunteer organizations, and other associations with the participation of the trade union organization.

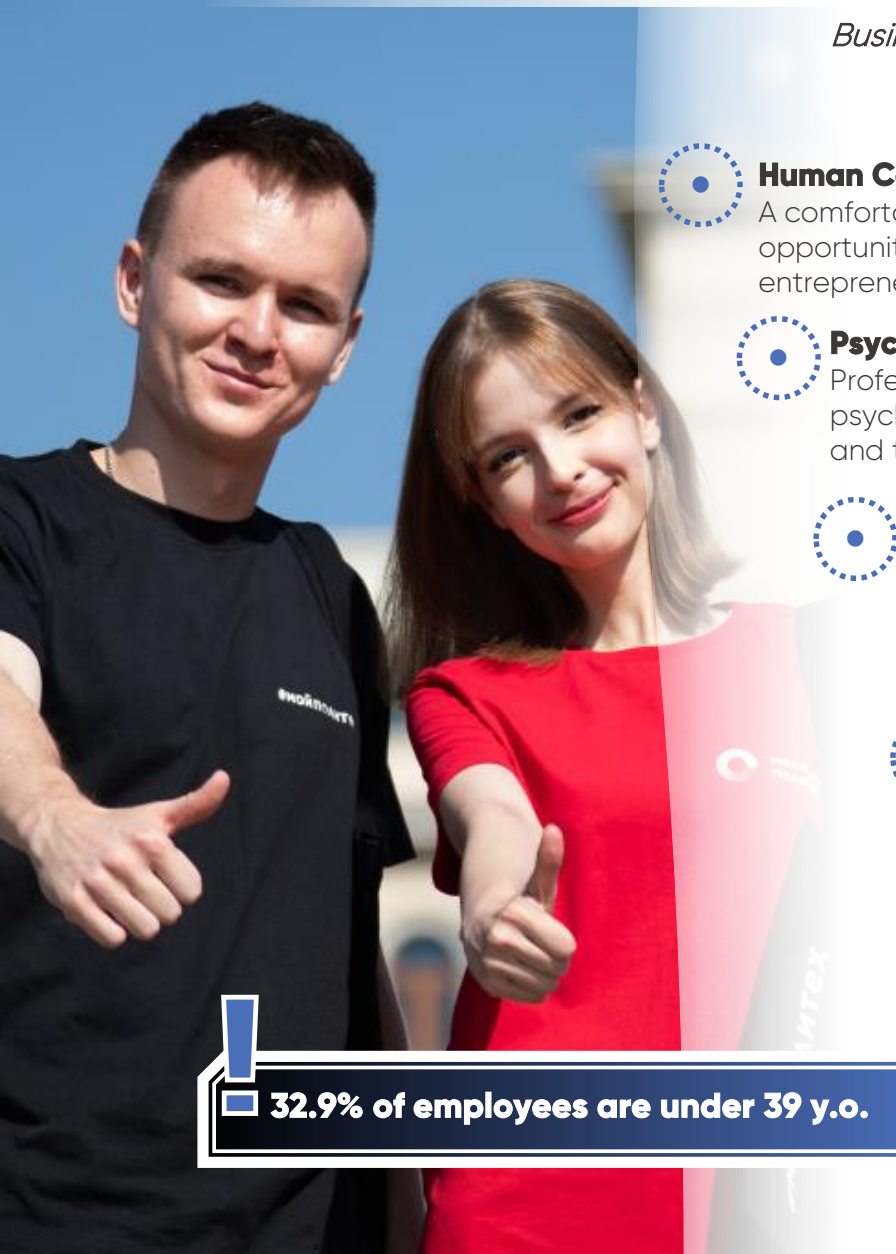


Student Scientific Society promotes and advances youth science, creates conditions for the development of students' research potential and competencies, and engages students in scientific and research activities.



Social Responsibility in Management Training

The course "[Corporate Social Responsibility](#)" is part of the core professional curriculum for students enrolled in the programs "Management" and "State and Municipal Administration".



32.9% of employees are under 39 y.o.

Social Activity and Working with Local Communities

[Donor Day charity events](#). 2025 results: over 230 donors and nearly 100 liters of blood. 13 people joined the National Bone Marrow Donor Registry of the Pirogov Russian National Research Medical University.

[Educational marathon "Knowledge. Science"](#) held in collaboration with the Russian Society "Znaniye" (Knowledge) and supported by the Russian Ministry of Education and Science aiming to promote science, attract talented young people, and expand career opportunities.

["Science of the Future" Education Program](#) for school students from Russia's different regions held at the All-Russian Children's Center "Orlyonok," featuring six modules ranging from digital manufacturing and robotics to printing technologies and design.

["The Big Tomorrow" foresight marathon](#) organized jointly with "Digital Technologies and Platforms" and the "Business Alliance" to integrate young people with leading educational, industrial, and business partners for discussions on building a sustainable future, including sessions focused on designing visions of the future.

[Student Fire and Rescue Squad "PHOENIX"](#) – celebrating 25 years of service to people in partnership with the public organization "Russian Union of Rescuers."

[The "I'm Involved" initiative](#) to support the development of youth entrepreneurship and mentoring competencies through the program's educational campus.

[Moscow Longevity Project](#): Regular free educational and recreational activities for senior citizens aimed at supporting active and socially engaged aging.



Volunteers



More than 200 volunteers participate on a pro bono basis in the activities of the [Moscow Polytech Volunteer Center](#) and implement their own projects in the field of youth policy.

"Vector of Kindness" Grant Project – training volunteers who are just beginning their journey in volunteerism, while also helping first-year students develop essential soft skills.

Regional Competition "Volunteer 360" ("Volunteer of the Year") – strengthening communication between university volunteer centers in the region, as well as recognizing and promoting best volunteer practices.

"Otklik" ("Response") Grant Project – a comprehensive program designed to support the development of student leadership communities, create the necessary educational foundation for their growth, and improve communication between student organizations.

"Autumn Volunteer Weekend" – an informal event introducing university students to the activities and opportunities of the Moscow Polytechnic Volunteer Center.

Five student squads provide temporary employment opportunities for students, promote civic and patriotic values, and support the development of students' creative and athletic potential:

- ✓ Student Pedagogical Group "Nebo"
- ✓ Student Pedagogical Group "Oktant"
- ✓ Student Construction Group "Vira"
- ✓ Student Railway Service Squad "Soyka"
- ✓ Snow Landing Group "Prityazhenie"

Equality and Inclusion

We have created [special conditions](#) to support the education, personal development, and well-being of students with disabilities and special educational needs, including:

- ✓ psychological, pedagogical, medical, and social support;
- ✓ provision of specialized individual and shared assistive learning technologies;
- ✓ individualized admission support;
- ✓ barrier-free access to university facilities and infrastructure.

Creating an accessible environment

“Digital Solutions for Special Needs Communities” Project

Key areas: development, research, design, and documentation.

Key partner: Our Sunny World, a comprehensive rehabilitation center for children and youth with special needs.

Participation in the Federal Program “Learning Through Service”

Development of an [AI-powered service](#) for adapting complex texts for people with cognitive and mental disabilities.

Communication and Accessibility

A young researcher from Moscow Polytech [received a grant](#) for a project supporting people with hearing and visual impairments. The project focuses on identifying the current needs of people with disabilities in their interaction with media resources.

Charity Events

The “Yolka Iskustv” (“The Christmas tree of Arts”) project implemented jointly with the “Center of Arts. Moscow” and the International Association of Child Rescue Organizations (Orphanages in the Moscow Region), including creative workshops on handmade toy production.

A young scientist from Moscow Polytech [received a grant](#) to develop a communication platform for people with hearing and visual impairments



Governance





Governance and Ethics

Moscow Polytech's governance system is built on the principles of transparency, engagement of employees and students, anti-corruption practices, and continuous development of human capital.

Data-driven and AI-enabled Governance Model

Founder

Ministry of Science and Higher Education of the Russian Federation

Academic Council

Meetings are held at least once every three months (collegiality principle).

Students are members of the Academic Council.

Supervisory Board

Participation of representatives of government authorities, industrial partners, and other stakeholders reflects the university's commitment to ensuring broad representation of interests in strategic decision-making processes.

Transparent Financial Reporting

In accordance with federal public finance standards, Moscow Polytech regularly publishes [financial](#) and [organizational](#) reports in open access.

The university conducts regular monitoring of its activities to ensure **compliance with commitments** undertaken within the framework of the "Priority 2030" program and the recommendations of the Ministry of Science and Higher Education of the Russian Federation, including **responsible financing, occupational health and safety, public health, social responsibility, corporate governance issues, environmental protection.**

Governance and Ethics

Trade Union Committee

[The authorized representative](#) of employees and the student body in matters of labor, economic and social relations.

Student Self-Governance

[The United Student Council](#) represents students in matters of internal governance, and [operates](#) within the authority delegated by Moscow Polytech and through [the student-elected](#)

- ✓ assistance in resolving student-related issues by: collecting student complaints and feedback; identifying core issues; formulating solutions; engaging with relevant authorized university bodies.

Human Capital Management Policy

We have created conditions to build and develop a unified and sustainable professional team.

- ✓ Attract leading external experts and teams through the "Open Platform" initiative.
- ✓ Support continuous professional development: university staff and external participants can enroll in [advanced training and professional retraining programs](#).

Corporate Environment and Ethics

Human-centered approach. We create an environment where every individual is valued and provided with opportunities for growth and development.

Human capital development supports the formation of a highly qualified team capable of implementing innovative projects.

- ✓ [The Code of Ethics](#) is aimed, among other objectives, at strengthening the university's authority and professional reputation.
- ✓ [Agreement between the University, the United Student Council, and the Trade Union](#) is in place to regulate social and educational relations and strengthen social partnership principles aimed at **enhancing students' social and legal protection**.
- ✓ A special Dispute Commission.

Anti-Corruption Policy

We are working to create an honest and transparent university community!

Anti-Corruption Commission established, along with feedback channels for submitting reports and concerns. All relevant information is publicly available on the university's [website](#).



Leadership and Partnership



Impact on Society

To build a sustainable environmental safety system, it is essential to promote public values focused on environmental protection and occupational safety, while ensuring cooperation among all stakeholders involved in this process.

(from the materials of the International Educational Conference "[Environmental Safety and Sustainability of Social Development](#)".)

Events with a sustainable development agenda:

[The Science – Society – Technology 2026 \(SST-2026\)](#) conference bringing together experts from diverse fields working on current challenges related to the development of a sustainable modern society.

The International Educational Conference "[Environmental Safety and Sustainable Social Development](#)" aimed at exchanging experience in Russian and international environmental education; discussing mechanisms for building environmental awareness and education systems; addressing research issues in education, environmental safety, and occupational health and safety.

650+ career guidance events, including **[the initiation of 2,000 tenth-graders into future professionals](#)** on Russian Science Day, in collaboration with the Moscow Department of Education and Science, business representatives, and NGOs.

Co-organizer of the [VI Finathlon Forum](#), dedicated to sustainable development, investment, and financial risk issues, supported by the Ministry of Science and Higher Education of the Russian Federation, the Ministry of Transport of the Russian Federation, and the Bank of Russia, with participation from international representatives.

[II International Scientific Conference](#) on Sustainability and Emerging Technologies for Smart Manufacturing – SETSM 2025" (China. Presentation by Philip Karpushin of the FDR Advanced Engineering School.

The 20th International Specialized Exhibition "[Climate World 2025](#)" (Air Conditioning, Ventilation, Heating, and Refrigeration Systems). The scientific and practical conference "Development of the Refrigeration Industry at the Present Stage" and the "School for Young Scientists named after Professor I.M. Kalnin" held jointly with representatives of Rossoyuzkholodprom.



Partnership

Joint events and projects with partners to develop sustainable career paths for students, train research engineers, technology starters, technologists, and designers who effectively apply AI in their work

Internship and placement organizations:

Krasnaya Zvezda, Isratek, N.A. Pilyugin Scientific and Production Center for Automation and Instrumentation, 1C, Coderline Projects

Laboratory modernization and educational program development:

Proeltech, OFIS PREMIER, Mosenergosbyt, Innovations of the Russian Federation, National Security Laboratories, Kommersant Dengi magazine, Dantex Rus

Targeted training:

Demikhovo Machine-Building Plant, Kurchatov Institute, GIPRONIIAVIAPROM, NAMI

Transportation industry:

FDR School and Kamaz, Avtotor Holding, Mercator Holding, Kamaz Research Center in Skolkovo

Representatives from the construction, energy, and utilities sectors:

Faculty of Urban Studies and Urban Economy, JSC Mosoblgaz, JSC MOEK, FSK Group, KORTROS Group, Proeltech, and others.

IT Technologies:

IT Faculty and 1C, Kaspersky Lab, AIC, Smart Design, Digital Design, New Cloud Technologies, Autodesk, SiteSecure, MTS, Polden. 21st Century

Career Center's Key Initiatives

- ✓ [Career Marathon](#)
- ✓ Company Tours
- ✓ Express Internships as part of the "More Than Just a Job" project
- ✓ Meetings with employer representatives and personal career consultations ([Rostelecom Career Day](#))
- ✓ Project-based learning, internships
- ✓ Research Projects
- ✓ Continuing Professional Education/Pre-University Education

750+ industrial partners
40+ international partners

Employment Rate:

[95% of graduates](#) find employment immediately after graduation.
More than 90% of FDR School graduates are employed in their field.



Our key partners:



You can find additional information on cooperation and joint projects with our partners on <https://mospolytech.ru/en/news/>.

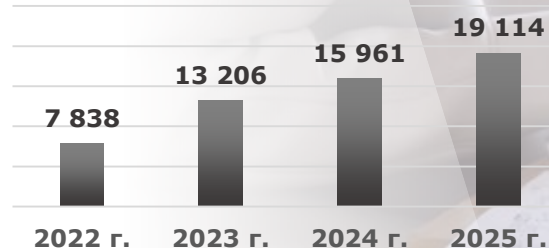
School Partnerships

***The School of Engineering (Faculty)** and other university divisions implement free educational and career guidance projects for school students in Moscow as part of the university's outreach activities, including initiatives carried out in cooperation with government authorities and local administrations.*

***Partners:** the Department of Education and Science, the Department of Entrepreneurship and Innovative Development, and the Department of Labor and Social Protection of the Population of the City of Moscow.*

- **"Science for Life" Conference**, section "Diversity of Science"
- Support for the practical stage of the **Moscow Interdisciplinary Skills and Knowledge Competition** "Intellectual Metropolis. Potential" in the "IT Class" category in robotics.
- Support for the **Moscow School Olympiad** (pre-professional) in biology and engineering design.
- Implementation of **additional education programs** at the Moscow Polytech's Center for Technological Support of Education (CTSE)
- **University career guidance activities** (Open Days, SMART Open Days, exhibition activities, etc.) – **more than 26,000 Moscow schoolchildren have completed pre-professional training at Moscow Polytech over 10 years**
- **Projects:** "Engineering class in a Moscow school", "IT class in a Moscow school", "Media class in a Moscow school", "Natural Science Vertical"

Number of participants



The number of participants in the School of Engineering (Faculty) projects steadily grows every year

Supplementary Educational Programs for Children

*A wide variety of educational programs for high school and college students.
Full spectrum of university preparation programs.*

Children's technology park

Center for Pre-University Education and
Preparation for the Unified State Exam

Art School "Polygraph"

Flying Robotics Laboratory

Junior Campus

Science Track

Science and Research
Engagement Program for
Grades 7–9 Students

Implemented programs at a glance:

- ✓ Aero Hard Competition
- ✓ Computer Science and ICT (48 academic hours)
- ✓ Master class on "Flying Robotics"
- ✓ EBAS Masters
- ✓ Mathematics, Social Studies, Russian
- Language, Physics
- ✓ Personal Drone
- ✓ Pilot – FPV 12+
- ✓ Preparation for Project Competitions
- ✓ [Flying Robotics Lab](#)
- ✓ [Finathlon MeetUp](#)

The Open Doors Russian Scholarship Project of the Global Universities Association

[The key to free education and a scientific career in Russia for talented people from all over the world.](#) Moscow Polytech is a co-organizer of the prestigious international Olympiad "Open Doors," organized with the support of the Russian Ministry of Education and Science and Rossotrudnichestvo.

Why Moscow Polytech?

- ✓ **2,300+ international students** from over 79 countries
- ✓ **STEAM education** and **project-based learning** from the first year
- ✓ **750+ employer partners** for internships and employment
- ✓ Active **social life** and memorable events
- ✓ **Adaptation assistance** with educational organization, housing, psychological support, medical care, and cultural issues
- ✓ **An additional free year of language instruction** when choosing a Russian-language program

What do the winners get?

Free tuition for undergraduate, graduate, and postgraduate programs in Russian or English

Possible scholarship to cover living expenses

One-stop-shop for choosing a university, program, and research project

Opportunity to obtain a researcher position in a research project



The “Russia–My Soul” Festival

The Russian Culture Festival “Russia–My Soul” organized by Moscow Polytech with the support of the Russkiy Mir Foundation, has attracted strong interest from international participants for several consecutive years. In 2025, the recitation contest and festival events were also held offline in India and Pakistan.



The two-week program:

- ✓ A poetry recitation contest featuring works by Russian poets;
- ✓ Interactive lectures on Russian literature and cultural traditions;
- ✓ Intellectual quizzes where participants applied their knowledge and competed for commemorative prizes from Moscow Polytech.



We actively develop international cooperation and regularly organizes educational and career guidance events for international audiences. Prospective students can attend introductory online Russian language classes and explore Russian traditions and culture.

The Russian Culture Festival “Russia–My Soul” is a carefully designed educational initiative that introduces participants to Russia’s culture, history, and achievements, while fostering a comprehensive understanding of the country’s traditions, modern development, and future.

– Alina Andrukh, Head of the International Directorate



InterClub and International Activities

[InterClub](#) helps international students discover their potential and thrive during their studies.

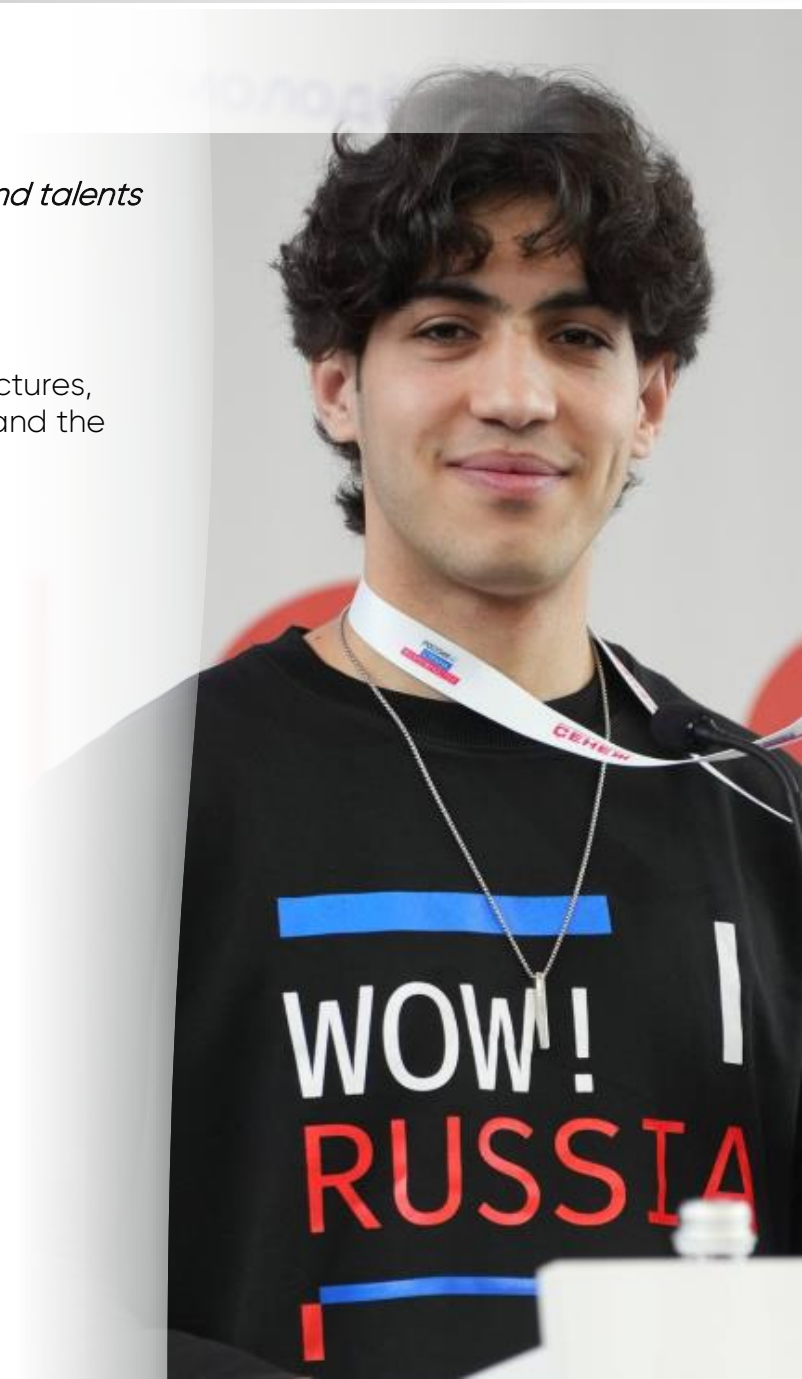
Bringing together students from more than 79 countries, the club creates a space where diverse cultures, ideas, and talents come together to create something truly unique.

Goal: To support participants' **professional development and collaborative project activities**.

Objective: To organize **events for international students**, such as conferences, training sessions, seminars, open lectures, exchange programs, and excursions in various fields, including in science, technology, diplomacy, economics, art, and the environment.

Few highlights at a glance

- International Student Competition WOW! RUSSIA. Nomination: "Education: Studying Without Filters". [Winner: Arman Afsarzada](#), a Mospolytech's student from Afghanistan.
- [Moscow Polytech's first official visit to Kenya](#)
- [A delegation from Taiwan University of Science and Technology visited Moscow Polytech](#)
- [Moscow Polytech students successfully completed a cultural and educational program in Beijing](#)
- [Moscow Polytech participated in the first Russian-Pakistani international conference](#)
- [A delegation from Taiyuan University of Science and Technology visited Moscow Polytech](#)
- [Representatives from the Tashkent Institute of Chemical Technology visited Moscow Polytech](#)
- [Moscow Polytech shared its experience in integrating African students at the Russia-Africa Expo 2025 international forum](#)
- [Moscow Polytech presented the opportunities of Russian education on Pakistan's national television channel](#)



Achievements

160 Years of Tradition and Innovation – The Legacy of Russia's Engineering School

Our Motto: True mastery is born where knowledge meets practice!

[Alumni](#) who shaped Russia's automotive industry and became iconic figures in culture and the arts.



1929: NAMI-1 – the first Soviet automobile of original domestic design, created as Konstantin Sharapov's graduation project.

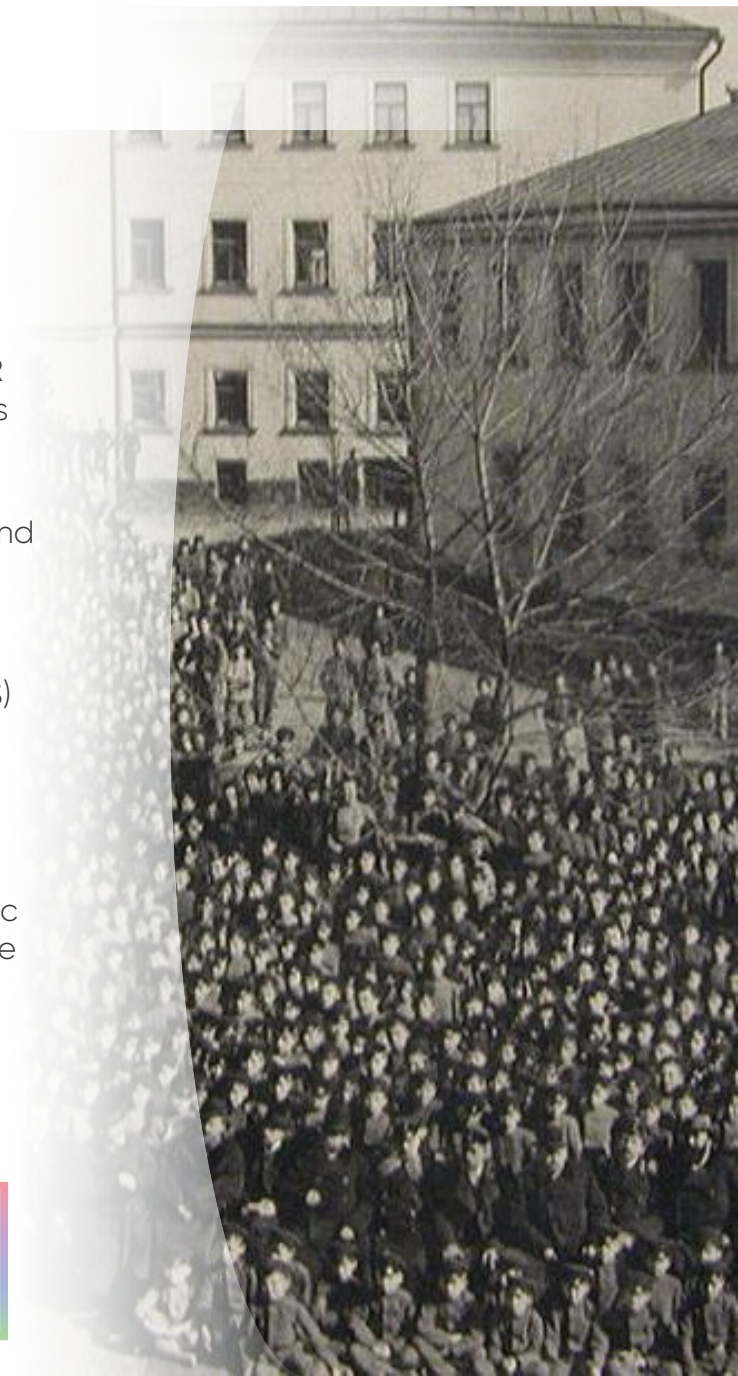


1980: The Olympic Bear – the symbol of the Moscow Olympic Games, created by Viktor Chizhikov and Alexander Tarbeev.

Among alumni:

- ✓ Evgeny Chudakov – Academician of the USSR Academy of Sciences and one of the pioneers of Russian mechanical engineering
- ✓ Lev Vasiliev – First General Director of KamAZ, Minister of Mechanical Engineering for Light and Food Industries and Household Appliances of the USSR, Deputy Minister of the Automotive Industry of the USSR
- ✓ Anatoly Krieger – Chief Designer of the ZiL (ZiS) plant
- ✓ Andrey Ostrovtssev – Creator of the first luxury government limousine, the ZIS-110
- ✓ Georgy Mirzoev – Chief Designer of AVTOVAZ
- ✓ [Mai Miturich](#) – One of the most famous graphic artists and illustrators of the second half of the 20th century, and others.

We preserve our heritage while educating future professionals in engineering, IT, and creative industries!





Today, some of the most promising research areas are biology and medicine. We all aspire to live longer, stay healthy, and age better — and these are exactly the fields where active research and innovation are taking place.

— Yuri Furletov, Associate Professor and Senior Researcher, Mospolytech

Research and Patent Development

- [Danila Kurtin's](#) patent for technology transforming the production of composite construction panels by eliminating workers' exposure to hazardous substances and significantly improving manufacturing efficiency.
- [Mikhail Kotelny's](#) patents for regenerative medicine technologies, including bioreactor designs that enable controlled cell growth and the creation of tissues with predefined properties. [Alexander Arkhipov's](#) patented technologies for growing tubular structures to be used as artificial blood vessels.
- [Andrey Moshin's](#) patented new bioreactor designs for 3D bioprinting technologies with applications in medicine, pharmaceuticals, and industry.
- PhD student [Alexander Chernyavsky's](#) patents related to models and equipment for improving low-temperature water desalination technologies with practical value for society and industrial production.

Grants

- **A Russian Science Foundation Grant** awarded for the development of biosensitive nanomaterials aimed at creating future sensor systems capable of detecting diseases including Parkinson's disease, Huntington's disease, and cardiovascular disorders.

— The "Alfa Future. Grants for Educators" Program.

Winner: Ilya Vasiliev, PhD (Engineering), Associate Professor in the Department of Innovative Materials for the Print Media Industry, Faculty of Printing.

Research project: Development of biodegradable and bioresorbable functional polymer materials, including bioresorbable implants for the treatment of complex mandibular fractures and facial bone tissue regeneration.

Competition Achievements

- **“Student Startup” (Foundation for Assistance to Small Innovative Enterprises).** [Development](#) of an innovative 3D printer for manufacturing flexible products – from medical implants to sports equipment.
- **All-Russian Scientific and Technical Competition “Hydrogen Technology Leaders”.** [Winners:](#) Team “H-hydrogen,” students majoring in “Refrigeration, Cryogenic Engineering, and Life Support Systems” from the Faculty of Chemical Engineering and Biotechnology, with their development of “Metal Hydride Battery” focused on environmentally friendly hydrogen storage technologies for scientific applications.
- **“Energy Breakthrough-2025”.** [Finalists](#) in track with the opportunity to conduct pilot testing at operational energy facilities across Russia, contributing to the development of sustainable energy technologies.
- **“VkusVill” Packaging Design Competition.** [Winner:](#) a project by a Moscow Polytech student launched into commercial production as consumer product packaging.
- **“Artist non/fiction”.** [Winner:](#) “Bolder Than Thought. A Typographic Story of the Electric Vehicle Dream,” published for the 160th anniversary of Moscow Polytechnic.
- **City Scientific and Practical Conference “Science for Life” (MediaStart Track.** [Winners:](#) 12% of participating school students involved in Moscow Polytech’s MediaStart 2025 project activities.

National Recognition

- **Russian Presidential Scholarship.** Among the 500 winners is [Roman Maksimov](#), a graduate student at the Faculty of Transport, developing new methods to improve the comfort of heavy ground vehicles in collaboration with the KAMAZ Innovation Center.
- **“Golden Names of Russian Higher Education”.** Winner: [Maria Barkar](#), a lecturer at the Center for Project-Based Learning.
- **Russian Society “Znaniye” (Knowledge).** [Honorary Certificate](#) for a significant contribution to educational projects promoting science, technology, and knowledge to broad audiences.





Expert Commentary and Alumni Success Stories

We are in Media

- **Andrey Aksyonov**, Doctor of Engineering Sciences, Professor, and Advisor to the Rector of Moscow Polytech, on the development of new aluminum alloys for Arctic applications ([TASS](#)).
- **Pablo Iturralde** - Director of the Advanced Engineering School of Technological Leadership "FDR" on the Channel One Russia ([Pervyy Kanal](#)).
- **Yuri Furletov**, Associate Professor at the Advanced Engineering School of Technological Leadership (FDR), speaks about autonomous transportation technologies on the "[Science Stand-Up](#)" project by Komsomolskaya Pravda Media Group and on the [Rossiya 1 TV channel](#).
- **Nina Myasishcheva**, Head of the Department of ChemBioTech, talks about healthy eating for the online publication [Life.ru](#).

Alumni Success Stories

- [Pablo Iturralde](#) - Director of the Advanced Engineering School of Technological Leadership "FDR"
- [Maxim Lyutsau](#), Vice President, Head of the Digital Business Cluster, MTS Bank
- [Ivan Arzamasov](#), Developer at Norsi-Trans
- [Matvey Adrin](#), Product Designer and Researcher, Lamoda

*More news in [English](#) by the tag
#Priority 2030, Sustainable development !*

Contacts

TEL.: +7 (495) 223-05-23

TEL.: +7 (495) 276-37-36

E-MAIL: MOSPOLYTECH@MOSPOLYTECH.RU

BOLSHAYA SEMYONOVSKAYA STR., 38, MOSCOW, 107023

WEB-SITE: MOSPOLYTECH.RU