
ITMO
2025

ITMO — A RESEARCH AND EDUCATIONAL CORPORATION

Smart environments

Lifestyle

Talents

International opportunities

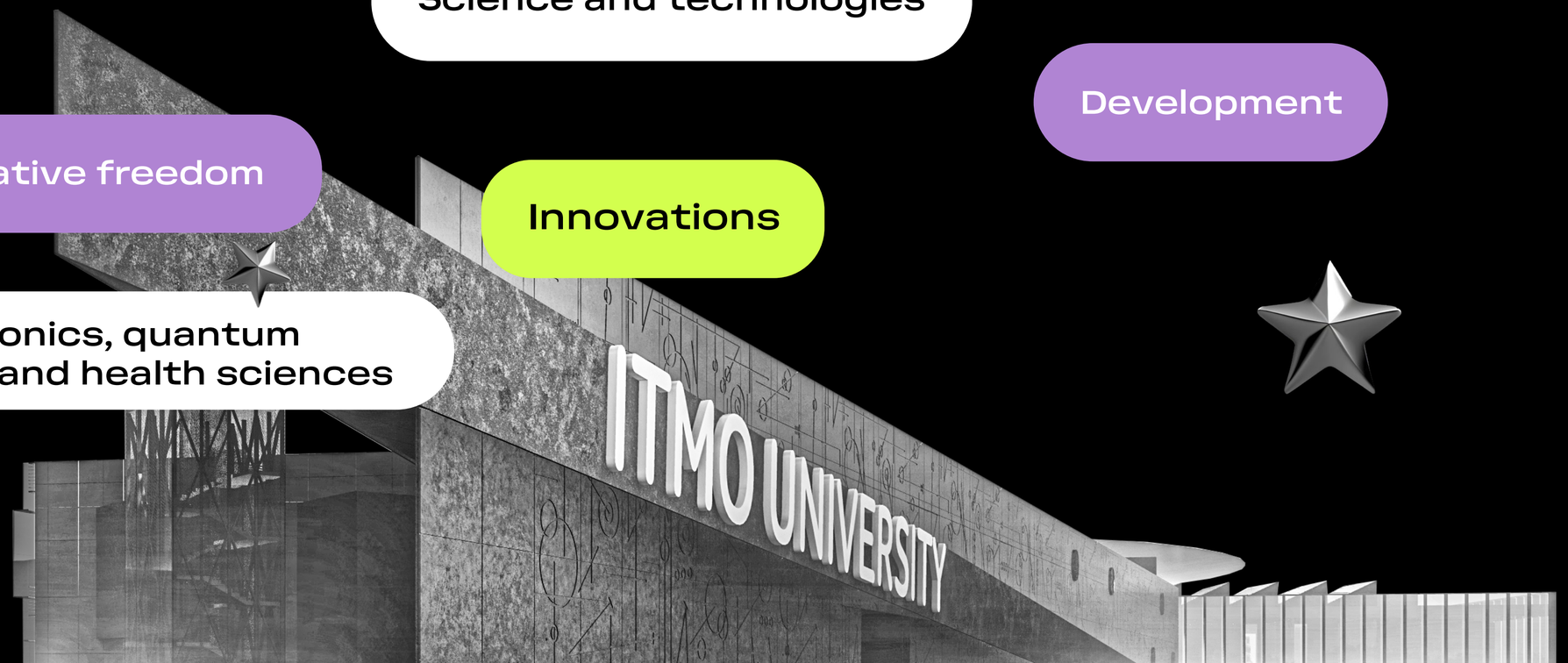
Science and technologies

Development

Creative freedom

Innovations

More than IT: photonics, quantum technologies, life and health sciences



ITMO

Quality education that encourages proactive career-building

A large community of industrial partners and a well-developed startup culture

A business-minded approach to work processes and a distributed management model

Shared culture – together, we love science, play sports, and share our passions with one another

Academic freedom, comfortable environment, and administrative support for scientists with a focus on research on the scientific frontier

Open-source philosophy: we share our best solutions, scale up ideas, and expand the talent pool

ITsMOre than a UNIVERSITY

OUR MISSION

To provide opportunities for the holistic development of individuals and to inspire them to tackle global challenges

OUR PHILOSOPHY

IT’s MOre than a UNIVERSITY

ITMO IN FIGURES

17,100+
students in total

1,300+
faculty members

8,800+
Bachelor's and Specialist's students

7,400+
Master's students

1,100+
PhD students

2,700+
international students

ITMO IN THE RANKINGS

BEST GLOBAL UNIVERSITIES U.S.News

41st

in the U.S. News & World Report subject ranking Optics

174th

in the U.S. News & World Report subject ranking Nanoscience & Nanotechnology

AI ALLIANCE RUSSIA

A+

in the AI Alliance ranking of universities by quality of training in the field of AI

Yandex Education

2nd

in the ranking of most popular universities among winners of mathematics and computer science competitions

SuperJob

2nd

in the ranking of best Russian universities by salary among IT graduates of 2018–2023

ACADEMIC RANKING OF WORLD UNIVERSITIES

ARWU 101–150

the only Russian university in the ARWU subject ranking Automation & Control

ЦИФРОВАЯ ЭКОНОМИКА
D-ECONOMY.RU

5th

in the ranking of digital economy universities of Moscow and St. Petersburg in the field of IT

HSE UNIVERSITY • ST. PETERSBURG •

5th

by quality of admissions according to the Higher School of Economics

ITMO FOR STUDENTS

Individual learning tracks

Opportunities for self-development

Balance between the virtual and the physical

21st-century fundamentals

Practical learning

Interdisciplinarity

Soft skills

Professional skills

Social awareness

FIELDS OF STUDY

SCHOOL OF TRANSLATIONAL INFORMATION TECHNOLOGIES

- Software development
- Artificial intelligence
- Machine learning
- Big Data
- Bioinformatics
- Translational medicine
- Urban studies
- Internet of Things

HIGHER SCHOOL OF ENGINEERING AND TECHNOLOGY

- Instrumentation
- Electrical engineering and technology
- Optical technologies
- Light-guided photonics

SCHOOL OF COMPUTER TECHNOLOGIES AND CONTROL

- Mechatronics and robotics
- Cyberphysical systems
- Digital navigation and control
- Computer graphics and design
- Unmanned aerial vehicles
- Bioengineering
- Cheminformatics

SCHOOL OF PHYSICS AND ENGINEERING

- Laser technologies
- Radiophysics
- Computer vision
- Nanoelectronics
- Quantum technologies
- Metamaterials
- Photonics

INSTITUTE OF INTERNATIONAL DEVELOPMENT AND PARTNERSHIP

- Humanities and IT
- Art & Science
- Science communication
- Data, culture and visualization
- Public health sciences
- Product design

SCHOOL OF LIFE SCIENCES

- Biotechnologies
- Solution chemistry of advanced materials and technologies
- Chemistry and molecular biology
- Infochemistry
- Green technologies

FACULTY OF TECHNOLOGICAL MANAGEMENT AND INNOVATIONS

- Digital transformation
- Innovative marketing
- Quality control and industry regulation Intellectual property
- Venture investments
- Technological entrepreneurship

EDUCATIONAL MODEL

Bachelor's programs

Individual educational tracks

1st year

2nd year

3rd year

4th year

Core disciplines: digital culture, soft skills, foreign languages, technological entrepreneurship, thinking, physical education, workplace safety, history

Practical training, including research work (up to 12% of curriculum)

Professional competencies

Master's programs

Individual educational tracks

1st semester

2nd semester

3rd semester

4th semester

Core disciplines: thinking, scientific entrepreneurship, creative technologies, foreign languages, applied AI, soft skills

Practical training, including research work (up to 45% of curriculum)

Professional competencies

PhD programs

3-4 years

Academic disciplines + research

ITMO FOR SCHOOL STUDENTS

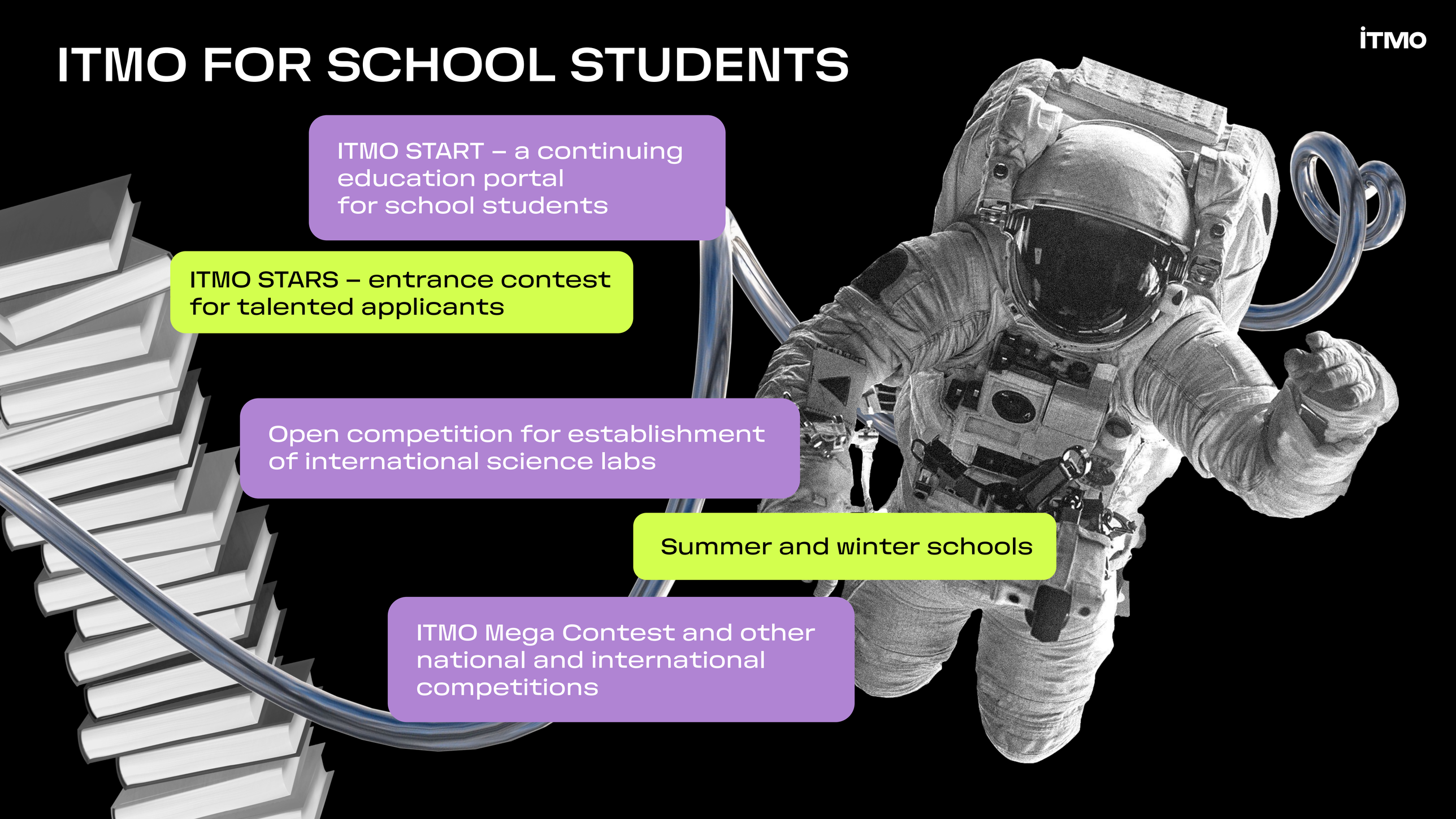
ITMO START – a continuing education portal for school students

ITMO STARS – entrance contest for talented applicants

Open competition for establishment of international science labs

Summer and winter schools

ITMO Mega Contest and other national and international competitions



RESEARCH IN TOP-PRIORITY SUBJECT AREAS

- Life and health sciences, biotechnologies
- Metamaterials and nanotechnologies
- AI and machine learning
- IT in economics, social sciences, and arts
- Intelligent technologies, robotics, and infosecurity
- Natural sciences, radiophysics, infochemistry
- Photonics, optics, and quantum communications

INTERNATIONALIZATION OF SCIENCE

7

international
research centers

Russian and international researchers and students of all degree levels

Renowned world-class scientists

ITMO FELLOWSHIP PROGRAM

100+
applications per year

50+
winners per year

6
annual application review rounds

21
current Fellows

Iuliia Melchakova

Anton Barchuk

Alisa Chaykovskaia

Ali Abbasi

?

Our next hero

INTERNATIONAL OPPORTUNITIES: INCOMING AND OUTGOING ACADEMIC MOBILITY

- Internships
- Conferences
- Summer schools
- Semester exchange
- International educational programs
- Buddy System

45+
partner universities

6%
of all students participate in outgoing academic mobility programs

21%
share of international students in 2023

ITMO UNIVERSITY IN NATIONAL PROJECTS

Advanced Engineering School

Provides training for unique specialists of a new kind (principal engineers) who possess the competencies needed to accelerate the transfer of new digital tech into the real economy.

УПРАВЛЕНИЕ ПЕРСПЕКТИВНЫХ ТЕХНОЛОГИЙ

TATNEFT

Technology Transfer Center

Creates and introduces effective mechanisms for the commercialization of IP and support of nation-wide technology transfer initiatives.

Gazprom-ITMO industrial center

Implements full-cycle innovative projects that correspond to global trends and aim to achieve technological sovereignty in the oil-and-gas sector.

GAZPROM NEFT

priority2030^

leaders are made, not born

ITMO 2030 is an open-source university.

Startup studio

Transforms the university's student environment into a venue for the practical training of future entrepreneurs and development of new startups.

ITMO UNIVERSITY IN NATIONAL PROJECTS

Research Center "Strong AI in Industry"

Works on full-cycle development of a range of applied systems based on strong AI elements – all for the use in conceptual engineering and industrial facility management.

GAZPROM NEFT
ROSNEFT

National Center for Quantum Internet

Develops and operates Quantum Communications Platform – a digital hardware-software platform solution seen in action as part of the Moscow - St. Petersburg "quantum highway".

Russian Railways

National Center for Cognitive Research

Main goal: to develop a domestic ecosystem for the creation and integration of machine learning and cognitive technologies in the establishment of high-tech products and services.

SBER
GAZPROM NEFT / GAZPROMNEFT SCIENCE & TECHNOLOGY CENTER
ROCKET GROUP

ITMO STARTUP STUDIO

Here, we help young entrepreneurs make their ideas a reality by providing all the necessary resources, expertise, and connections.

Our goal is to create high-tech businesses that develop much-needed products.

187 million

rubles in investments were raised for our startup funnel projects in 2023

Priority industries:

- biotechnologies
- optics and photonics
- foodtech
- life science
- AI / ML
- IT services

OUR SERVICES

For industrial partners:

- Creation of assets and intellectual properties that can create new r evenue sources for the company;
- Access to top-tier market specialists (proof of ITMO students' high level of training);
- Access to cutting-edge research infrastructure (showcasing ITMO's lab and research equipment pool);
- Co-investment into tech businesses;
- Flexibility in external development and management of new products.

For investors

- Startup funnel for tech projects at varying stages of development and technological readiness;
- Technological due diligence;
- Syndication of investment deals.

OUR PARTNERS

Kontur, GAZPROM NEFT, Восход, AIM, Moscow Agency of Innovations, SBER, MTS AI, GAZPROM, ЦПС, Russian Railways, нетология

IMPACT CENTER

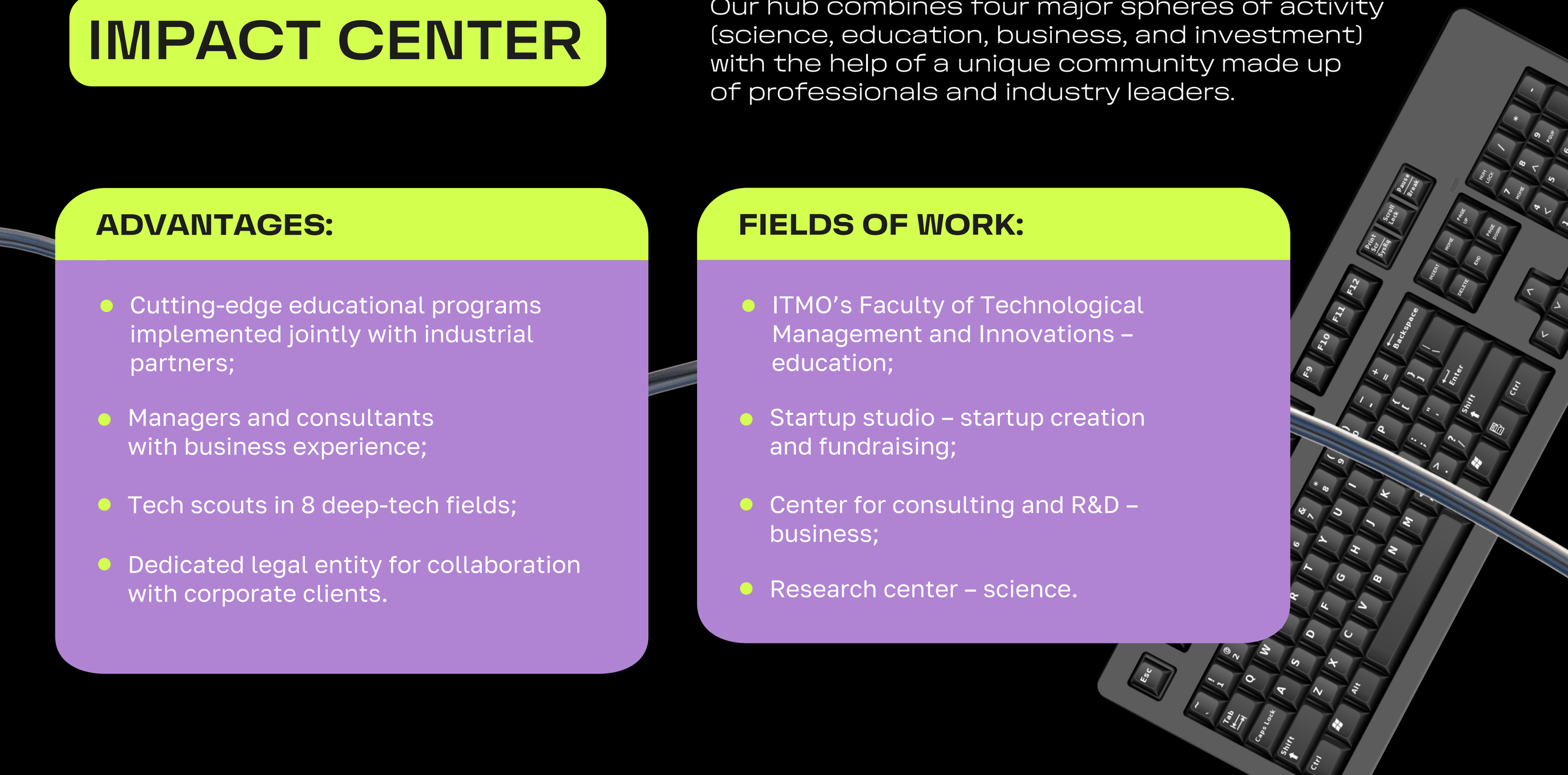
Our hub combines four major spheres of activity (science, education, business, and investment) with the help of a unique community made up of professionals and industry leaders.

ADVANTAGES:

- Cutting-edge educational programs implemented jointly with industrial partners;
- Managers and consultants with business experience;
- Tech scouts in 8 deep-tech fields;
- Dedicated legal entity for collaboration with corporate clients.

FIELDS OF WORK:

- ITMO’s Faculty of Technological Management and Innovations – education;
- Startup studio – startup creation and fundraising;
- Center for consulting and R&D – business;
- Research center – science.



OUR ACHIEVEMENTS

Winners of international contests: AI Journey Contest, Google Image Matching Challenge, Topcoder Open, and more.

ITMO's Advanced Engineering School is the leader of the AES federal project.

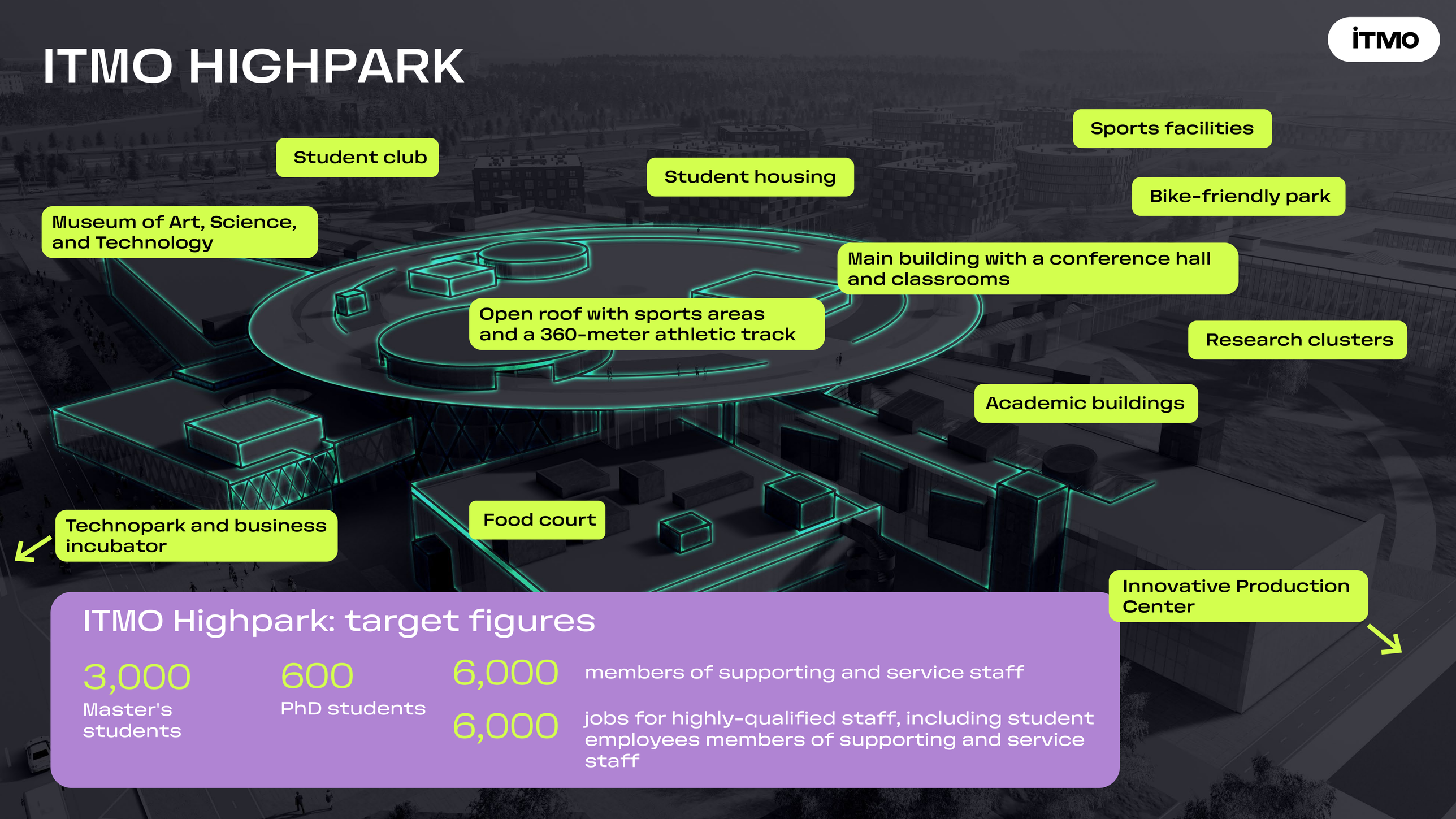
One of Russia's top 5 employers in science and education according to the job-hunting platform hh.ru (2023, 2024)

ITMO's student team won the gold at VolgaCTF 2023 and is one of the world's top 3 CTF teams

ITMO University – 2024's top participant of the national project Priority 2030

We are the world's only seven-time ICPC champions!

ITMO HIGHPARK



ITMO Highpark: target figures

3,000
Master's students

600
PhD students

6,000
members of supporting and service staff

6,000
jobs for highly-qualified staff, including student employees members of supporting and service staff

ITMO FAMILY: AN ENVIRONMENT FOR GROWTH

Coworking spaces

24/7

Digital library

FREE!

Litres

ITMO FAMILY: AN ENVIRONMENT FOR GROWTH

ITMO LOVE: an awards show for best colleagues

ITMO Open Education: rave-style education expo

Open Science Rocks: ITMO’s major science festival

ITMO.LiVE: graduation, ITMO-style

ITMO FAMILY: AN ENVIRONMENT FOR GROWTH

The bi-annual bike ride with the Rector

ITMO

Join us!

ITsMOre than a UNIVERSITY

itmo_uni spbifmo itmo_uni