



iTMO

2024



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 UNIVERSITY

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



iTMO *re 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

ITMO

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



78th

in the QS subject ranking
Computer Science
& Information Systems

51–70

in the QS subject ranking
Data Science & Artificial
Intelligence

146th

in the QS subject ranking
Electrical & Electronic
Engineering



A+

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

SuperJob

2nd

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



5th

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



29th

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

163rd

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



ARWU
76–100

in the ARWU subject ranking
Automation & Control



5th

by quality of admissions
according to the Higher
School of Economics

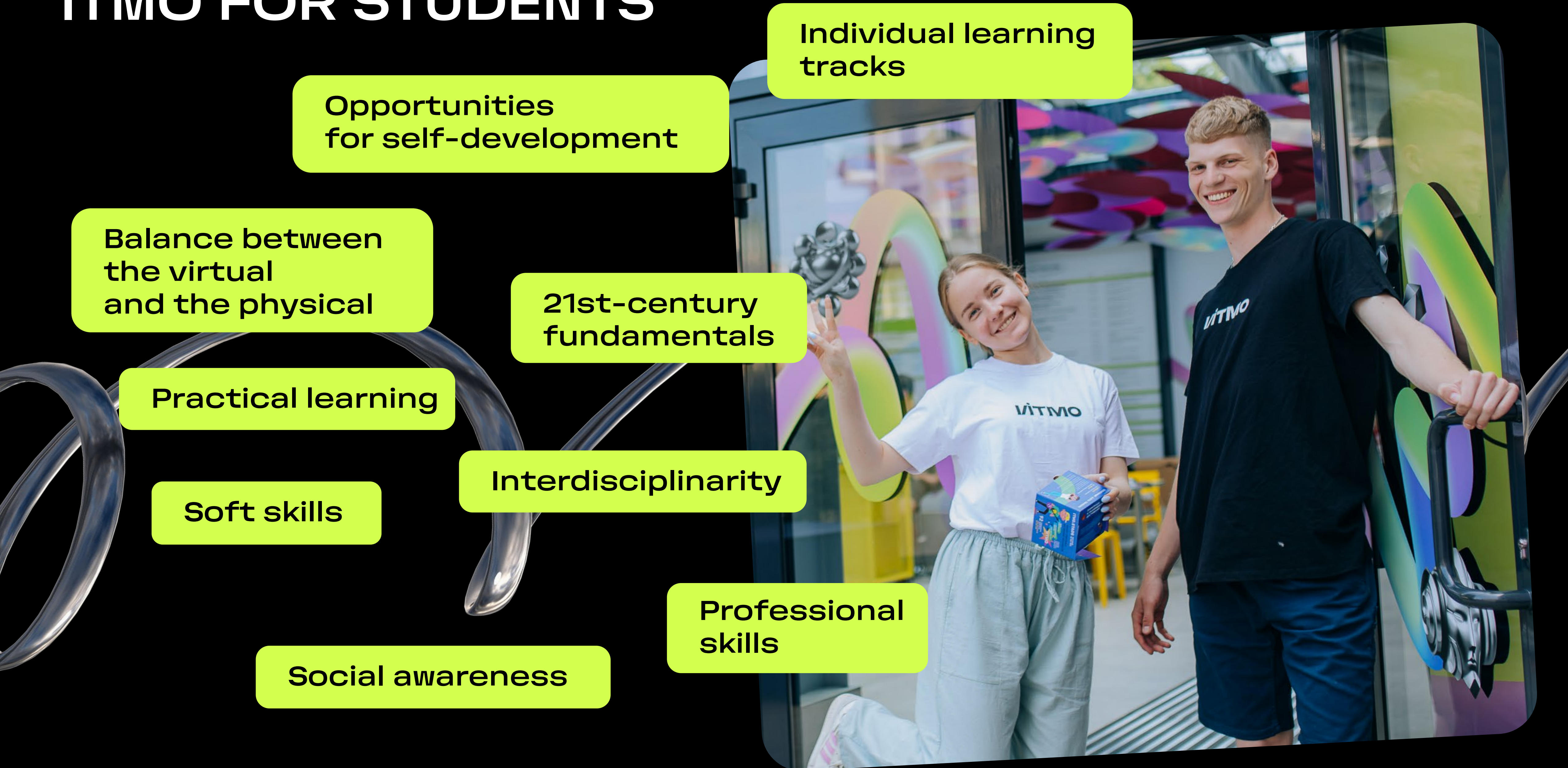
Yandex Education

2nd

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

ITMO FOR STUDENTS

ITMO



FIELDS OF STUDY

SCHOOL OF TRANSLATIONAL INFORMATION TECHNOLOGIES

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

SCHOOL OF COMPUTER TECHNOLOGIES AND CONTROL

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

INSTITUTE OF INTERNATIONAL DEVELOPMENT AND PARTNERSHIP

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

FACULTY OF TECHNOLOGICAL MANAGEMENT AND INNOVATIONS

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

HIGHER SCHOOL OF ENGINEERING AND TECHNOLOGY

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

SCHOOL OF PHYSICS AND ENGINEERING

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

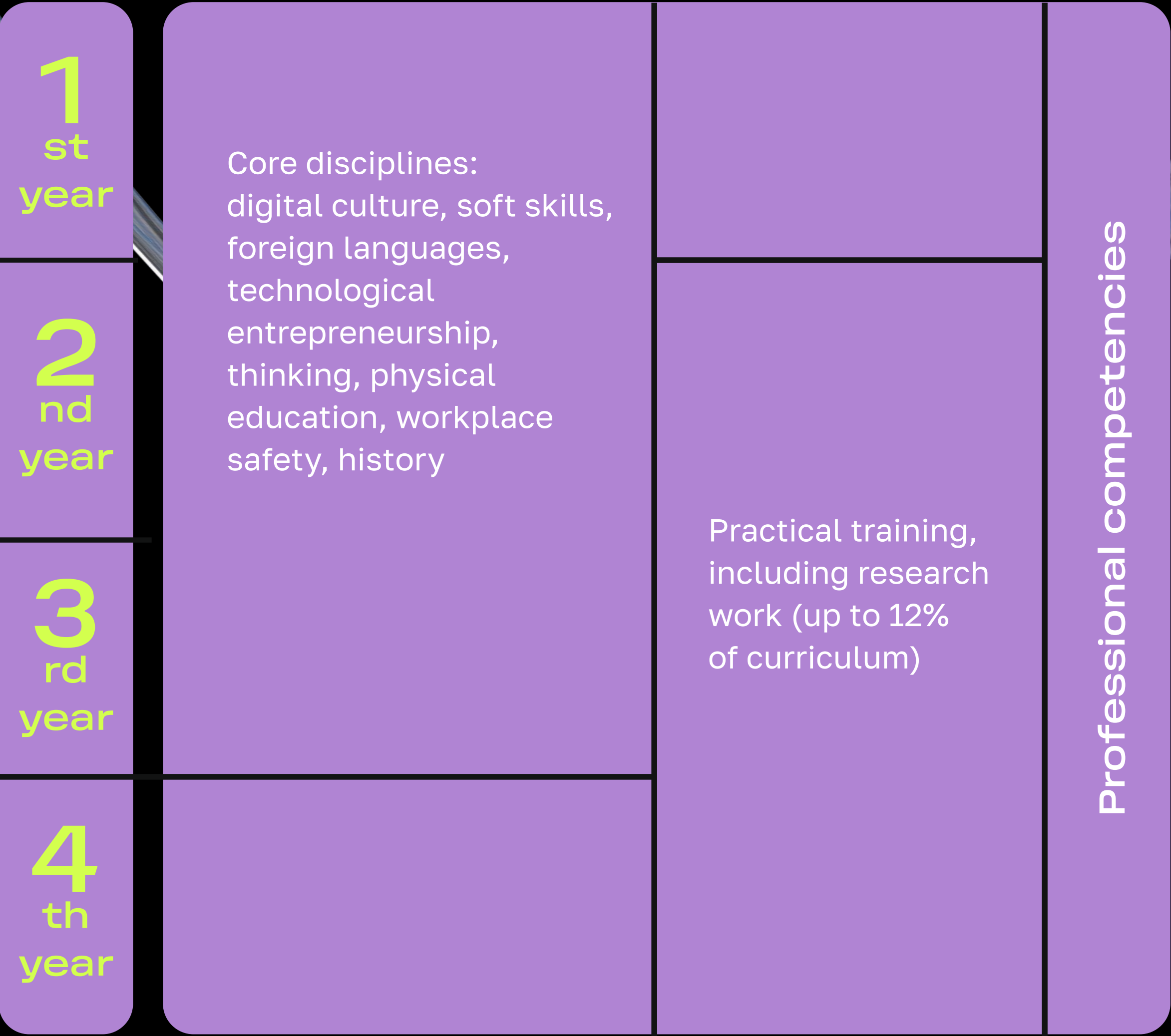
SCHOOL OF LIFE SCIENCES

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

ОБРАЗОВАТЕЛЬНАЯ МОДЕЛЬ

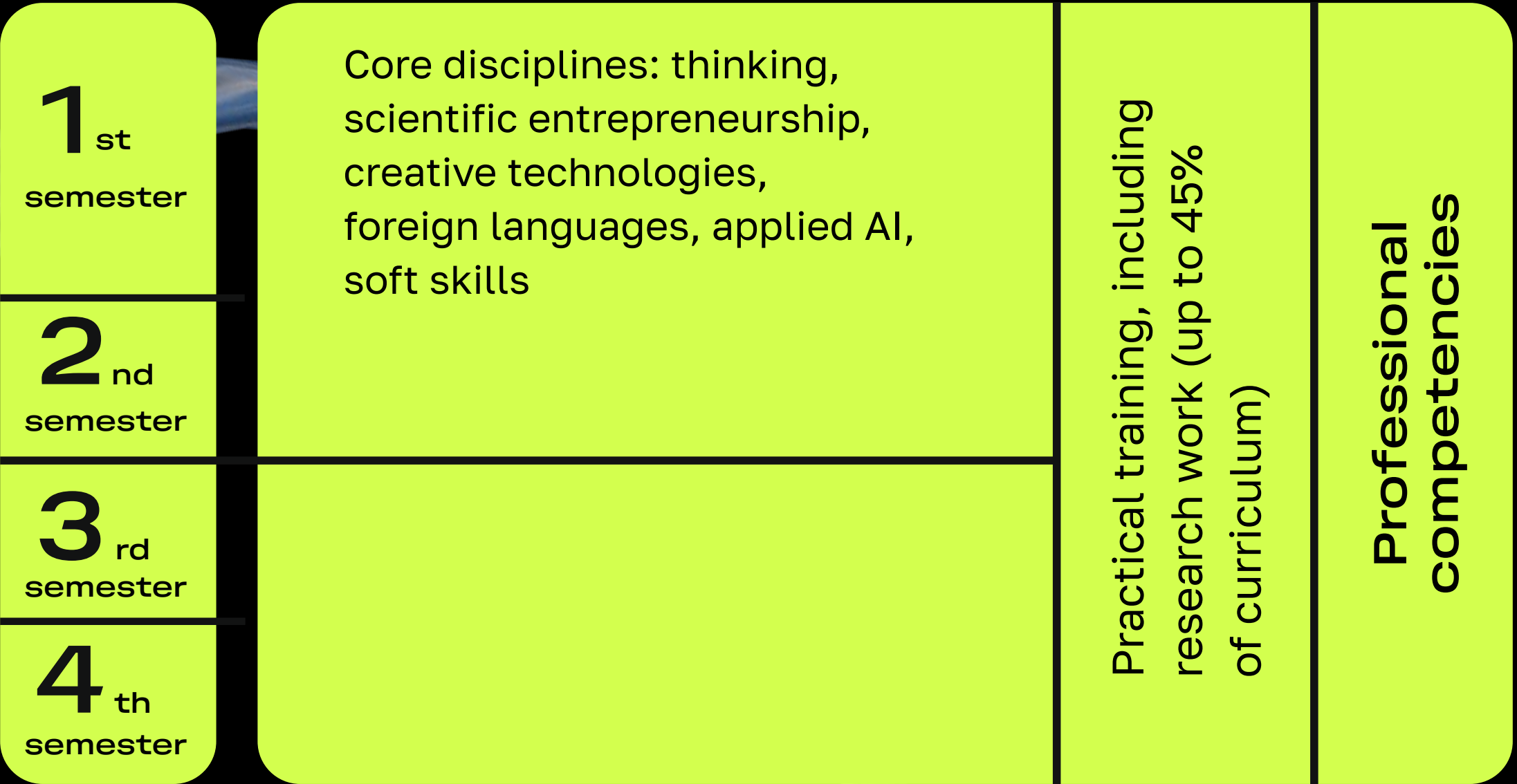
Bachelor's programs

Individual educational tracks



Master's programs

Individual educational tracks



PhD programs 3-4 years

Academic disciplines + research

ITMO FOR SCHOOL STUDENTS

ITMO

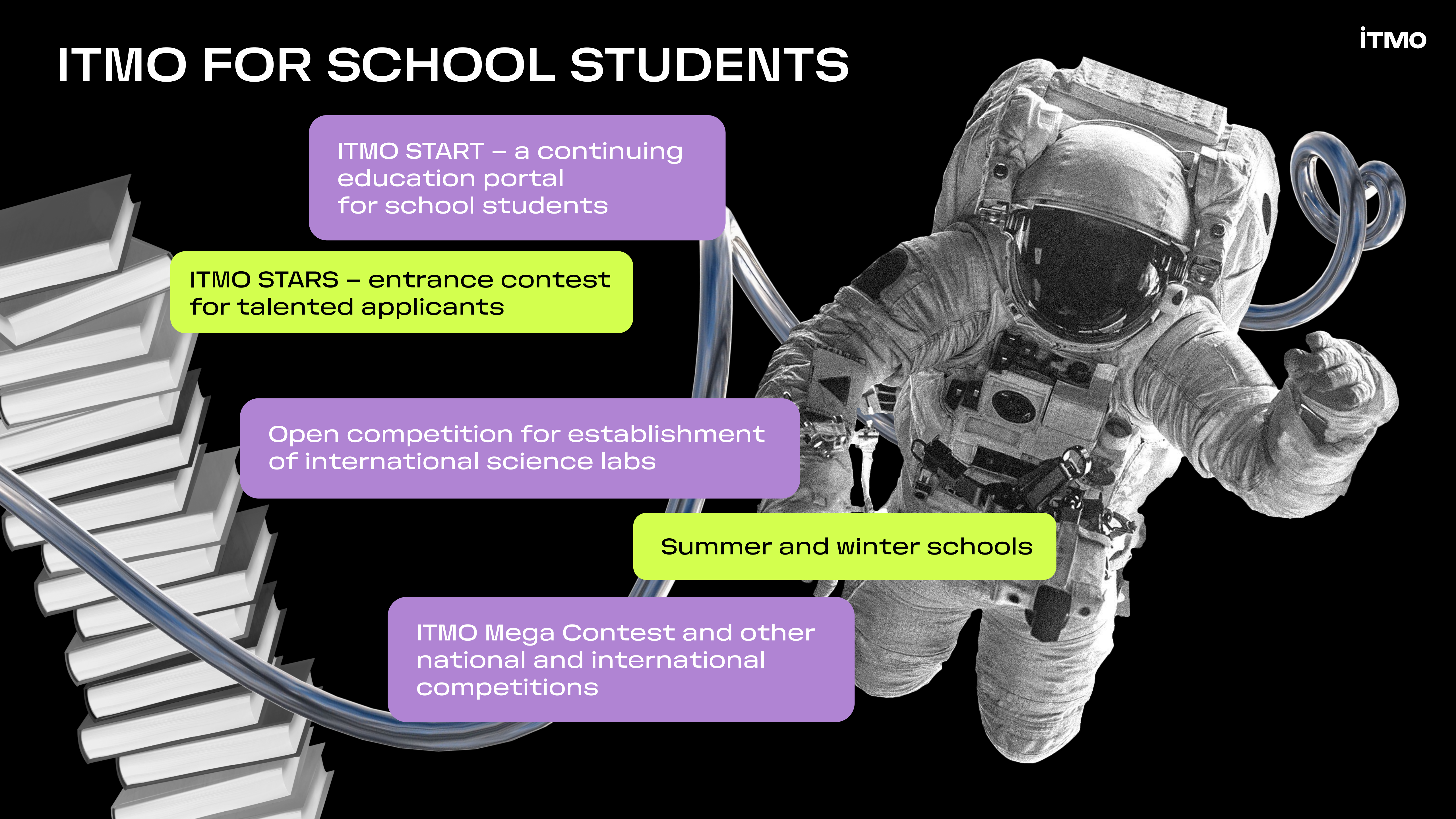
ITMO START – a continuing education portal for school students

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

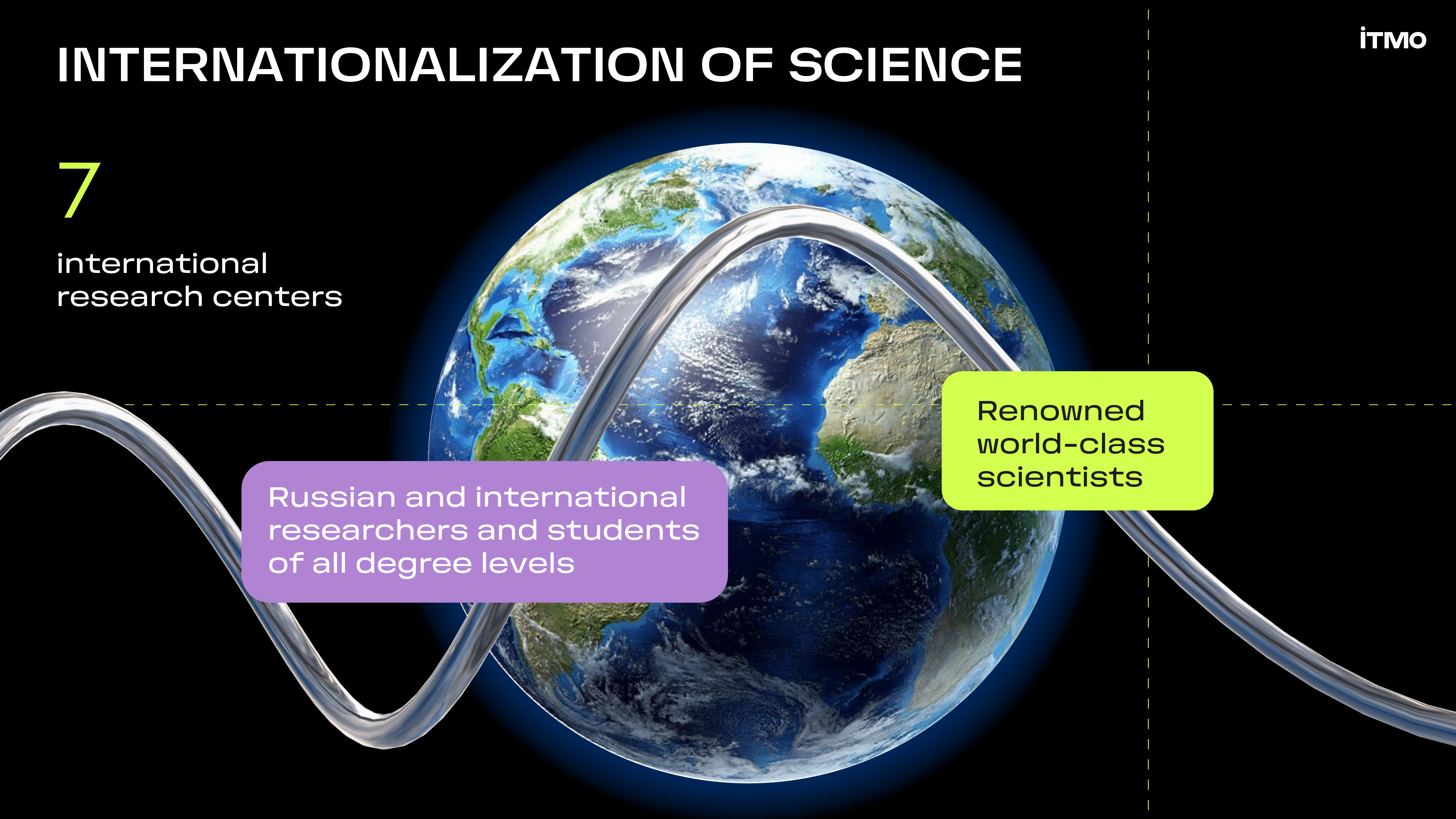
INTERNATIONALIZATION OF SCIENCE

7

international
research centers

Russian and international
researchers and students
of all degree levels

Renowned
world-class
scientists



ITMO FELLOWSHIP PROGRAM

ITMO

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.



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.



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

ITMO

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.



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".



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.



ROCKET GROUP

ITMO STARTUP STUDIO

ITMO

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 revenue 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



AIM



ЦПС



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.

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

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



ITMO HIGHPARK

ITMO

Student club

Sports facilities

Student housing

Bike-friendly park

Museum of Art, Science,
and Technology

Main building with a conference hall
and classrooms

Open roof with sports areas
and a 360-meter athletic track

Research clusters

Academic buildings

Food court

Technopark and business
incubator

Innovative Production
Center

ITMO Highpark: target figures

3,000

Master's
students

600

PhD students

6,000

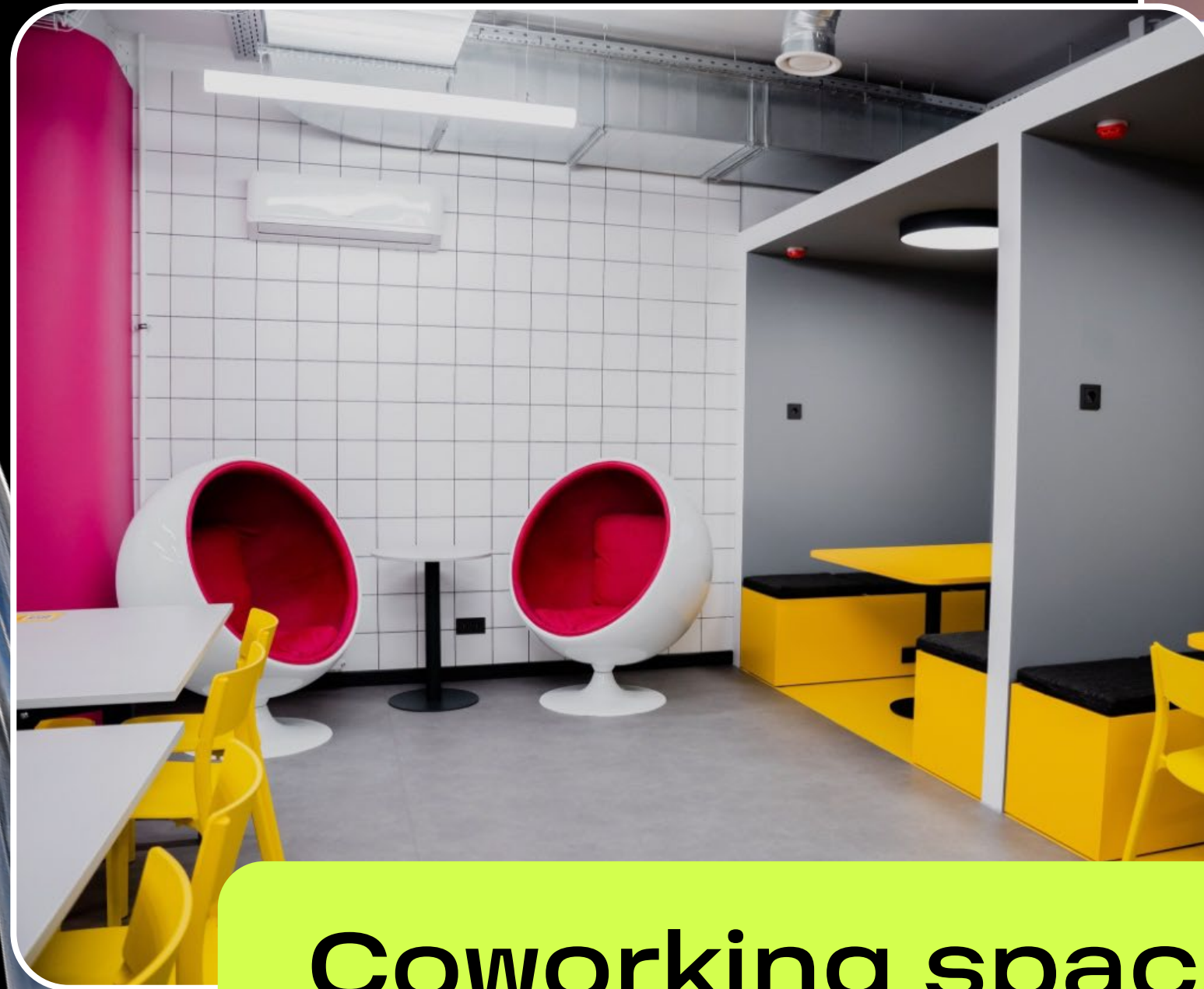
members of supporting and service staff

6,000

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

ITMO FAMILY: AN ENVIRONMENT FOR GROWTH

ITMO



Coworking spaces



24/7



Digital library



FREE!

Litres

ITMO FAMILY: AN ENVIRONMENT FOR GROWTH

ITMO

ITMO LOVE: an awards show for best colleagues



ITMO Open Education: rave-style education expo



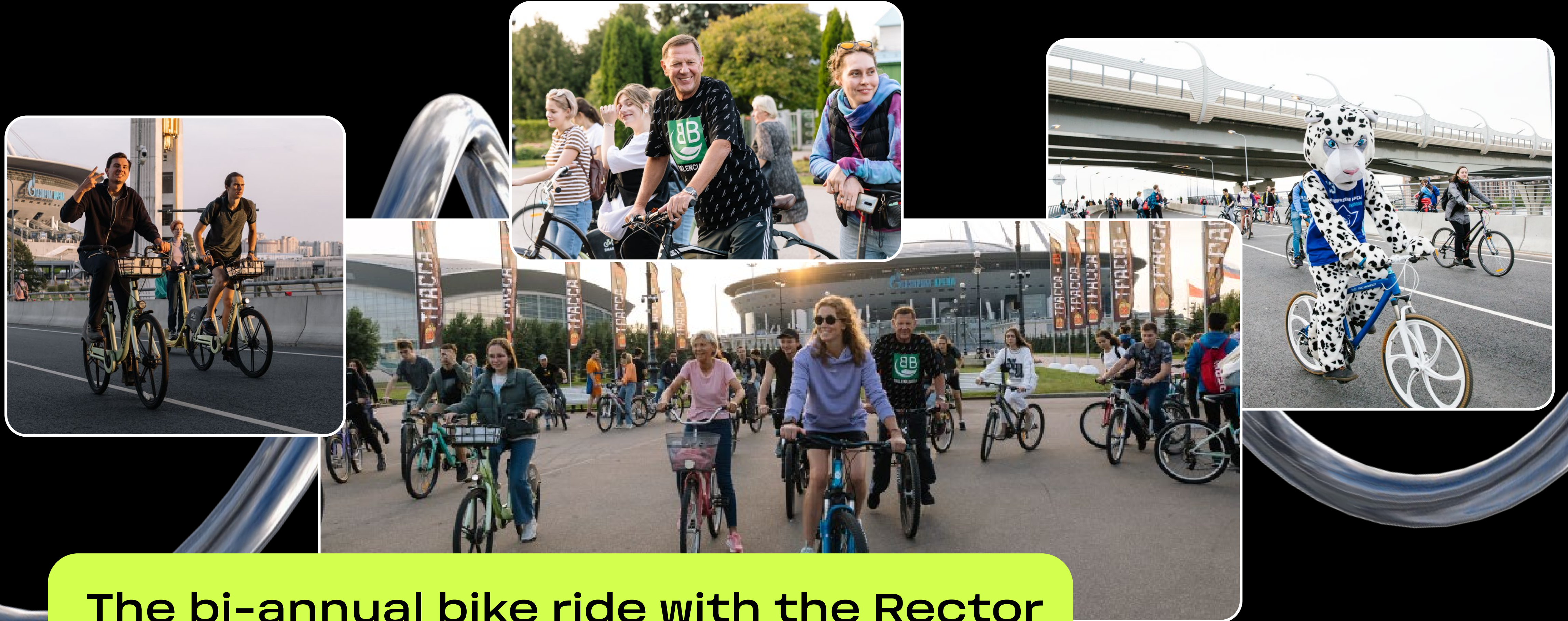
Open Science Rocks: ITMO's major science festival



ITMO.LIVE: graduation, ITMO-style



ITMO FAMILY: AN ENVIRONMENT FOR GROWTH



The bi-annual bike ride with the Rector

Join us!

IT's *MO*re than a
UNIVERSITY



itmo_uni



spbifmo



itmo_uni