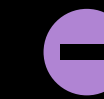




**iTMO**  
**2024**





# 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

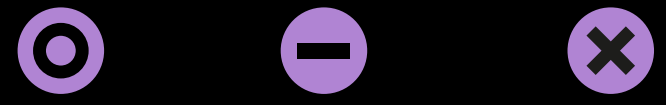
A business-minded approach to work processes and a distributed management model

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

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

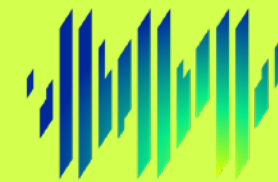
in the QS subject ranking  
Computer Science  
& Information Systems

## 51-70

in the QS subject ranking  
Data Science & Artificial  
Intelligence

## 146th

in the QS subject ranking  
Electrical & Electronic  
Engineering



AI ALLIANCE  
RUSSIA

## 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

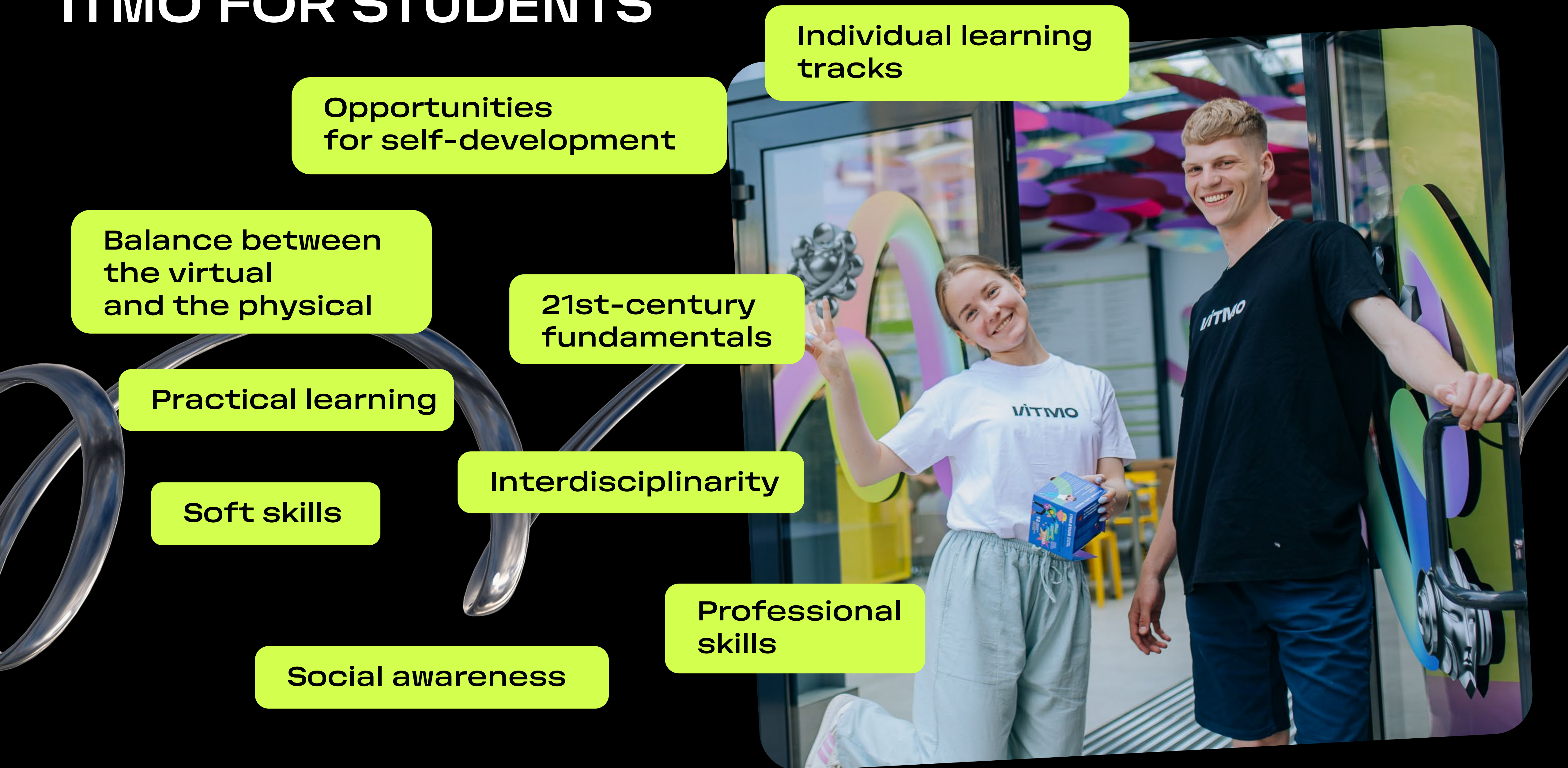
## Yandex Education

## 2nd

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



# ITMO FOR STUDENTS





# 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



# EDUCATIONAL MODEL

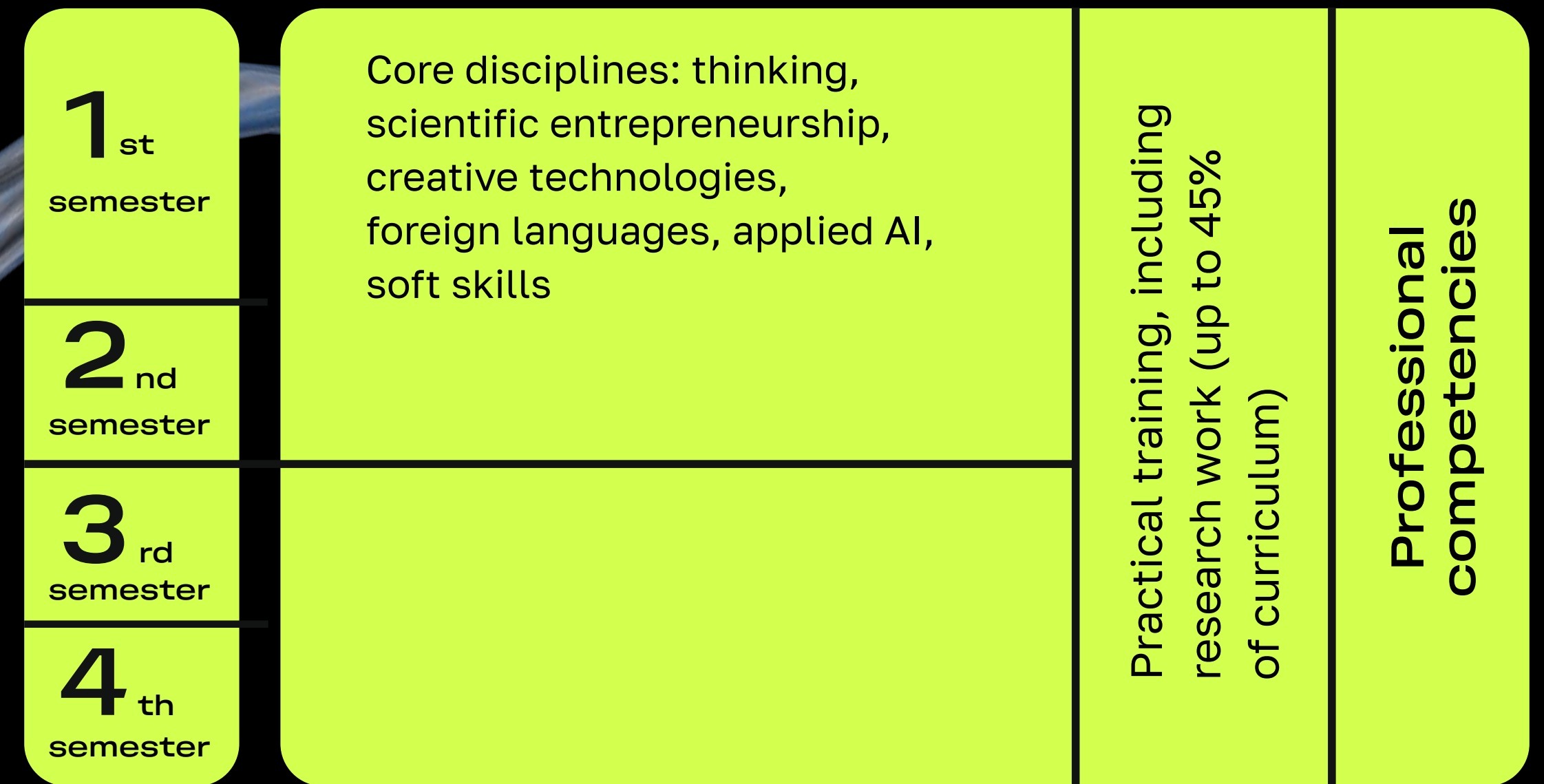
## Bachelor's programs

Individual educational tracks



## Master's programs

Individual educational tracks



## PhD programs 3-4 years

Academic disciplines + research



# ITMO FOR SCHOOL STUDENTS

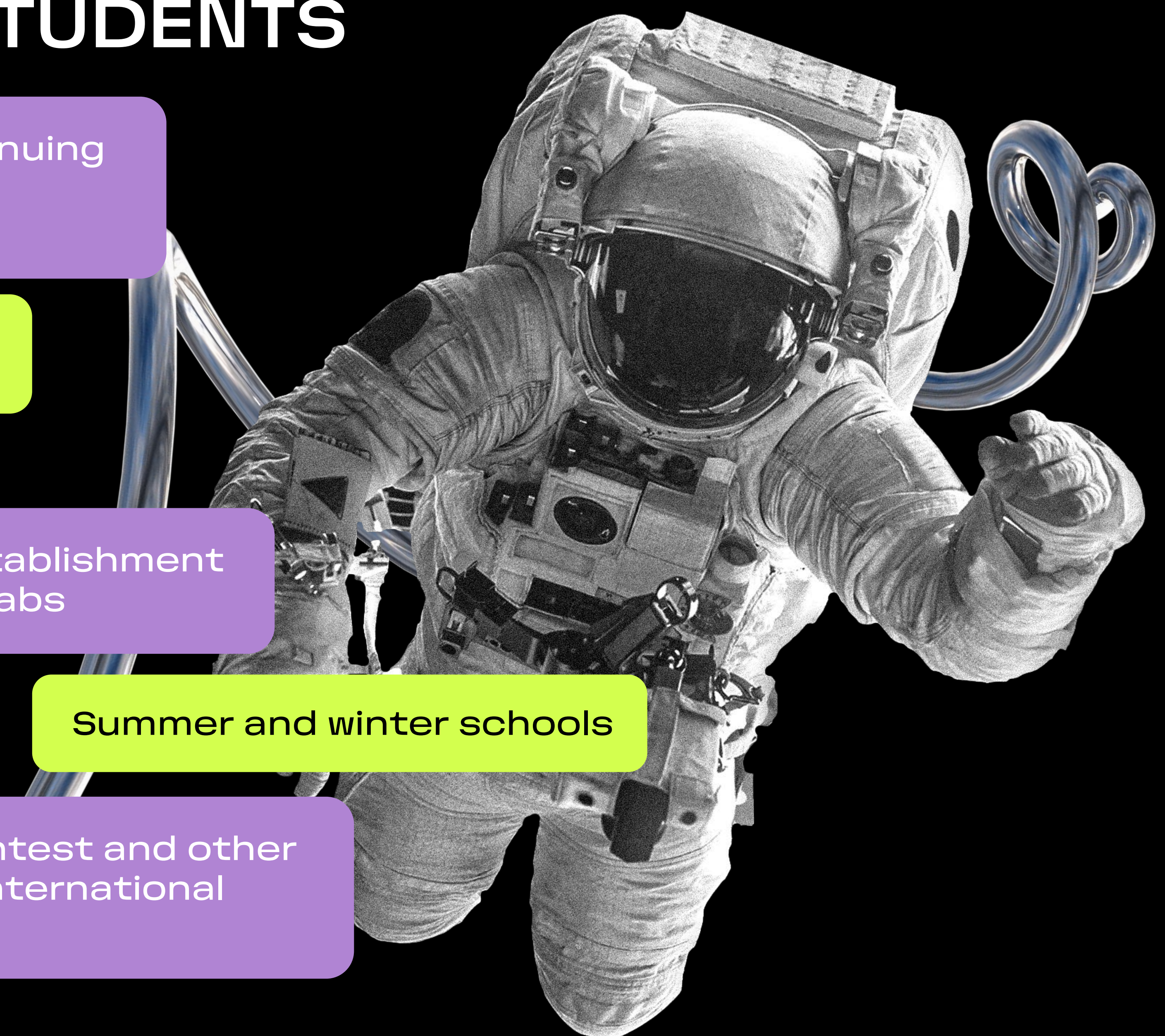
ITMO START – a continuing education portal for school students

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+

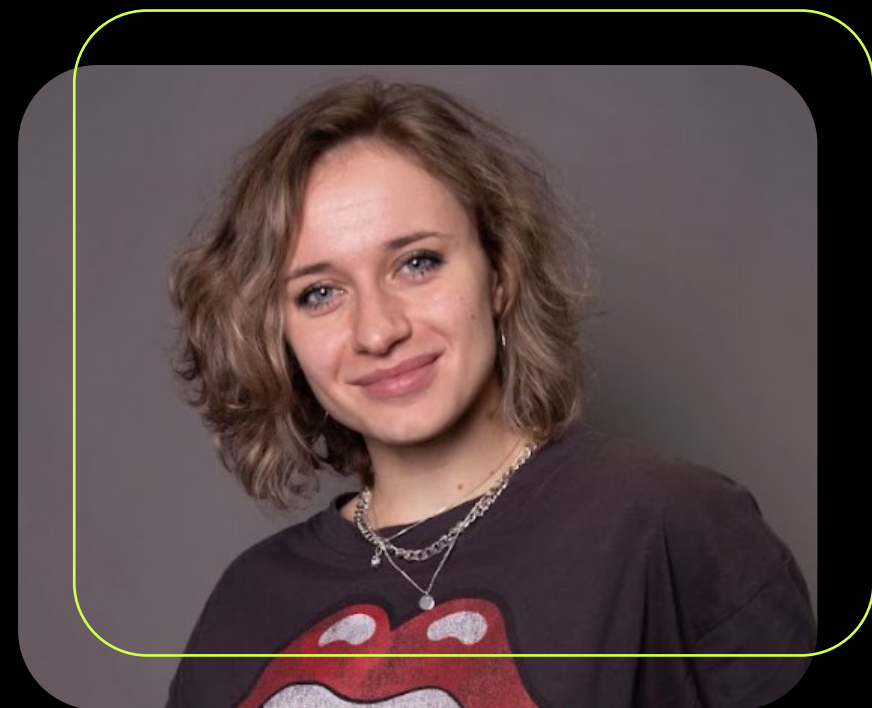
winners per  
year

6

annual  
application  
review rounds

21

current Fellows



Iuliia  
Melchakova



Anton  
Barchuk



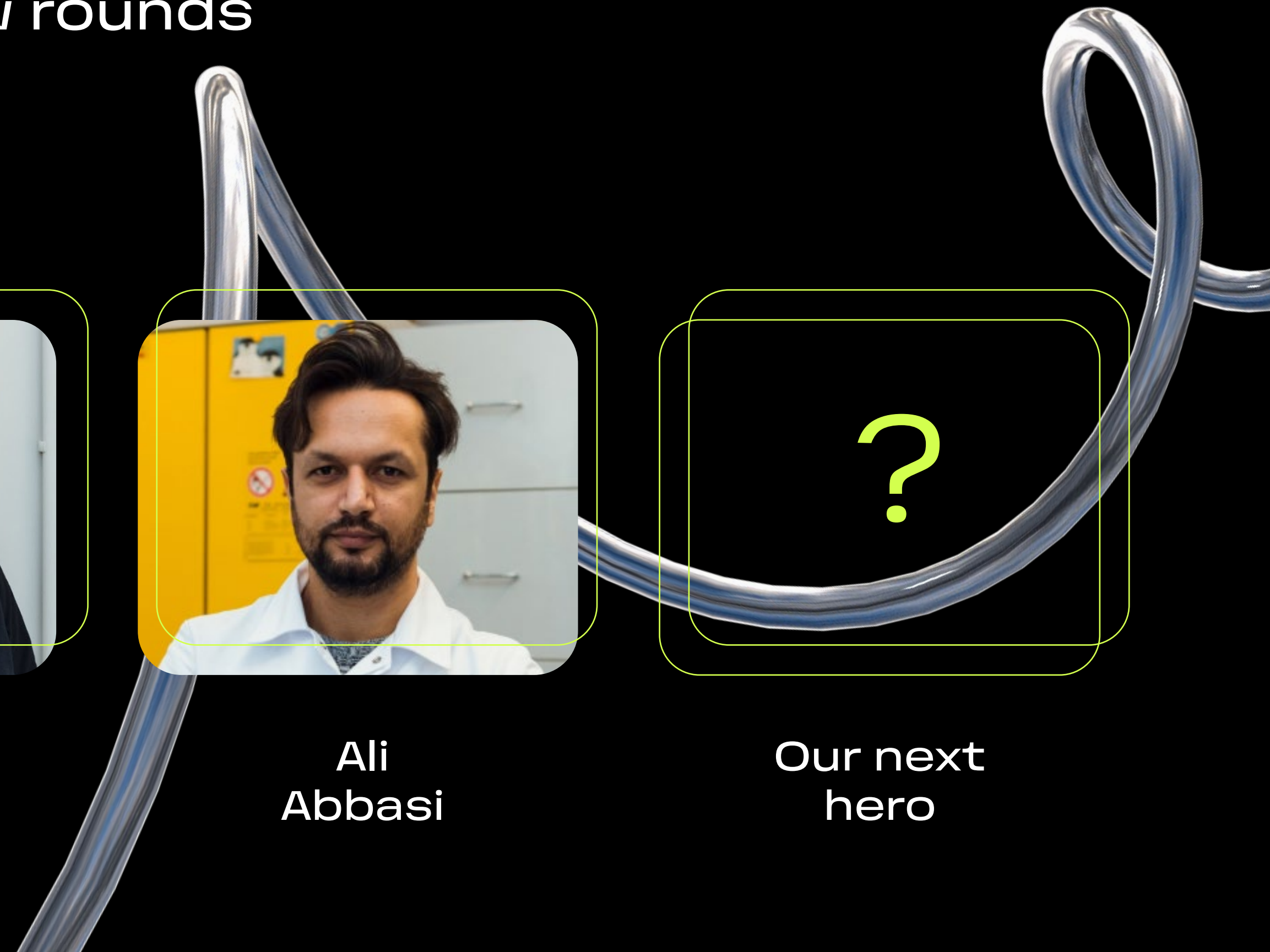
Alisa  
Chaykovskaia



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.



## 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<sup>^</sup> 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.



## 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.





# 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 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.

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!

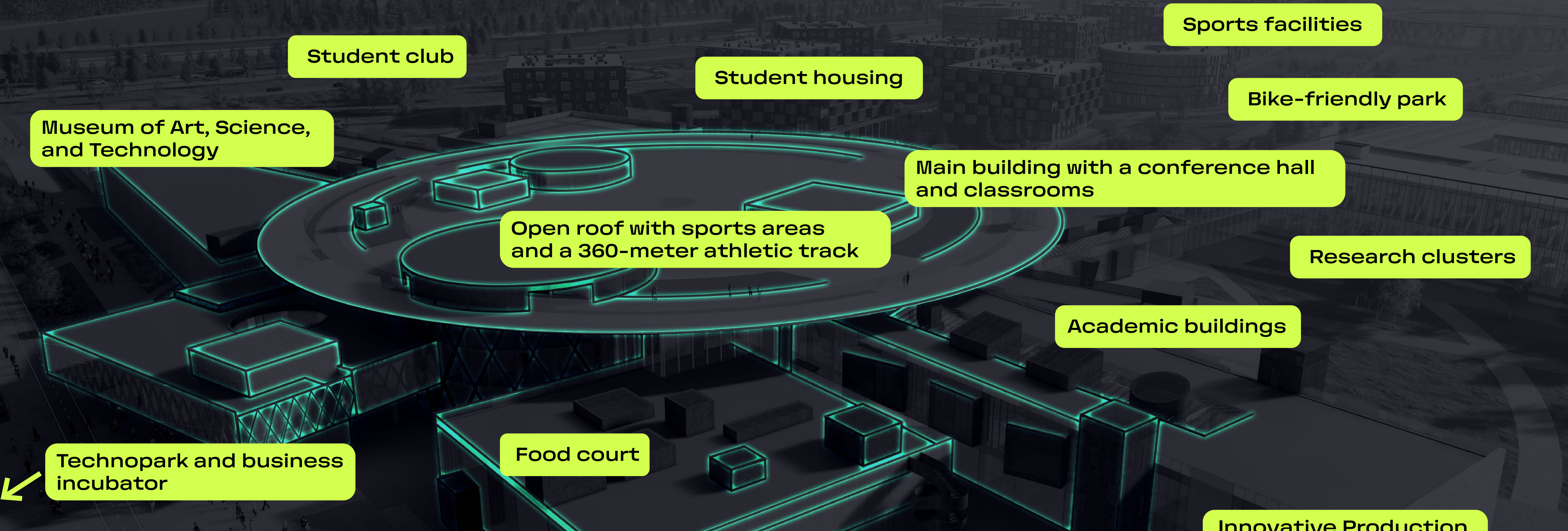


x7

1995	- Azeri-L...
1996	- U of Calif...
1997	- Harvey M...
1998	- Charles U...
1999	- University...
2000	- St. Peterb...
2001	- St. Peterb...
2002	- Shanghai J...
2003	- The Univers...
2004	- St. Peterb...
2005	- Shanghai J...
2006	- Saratov St...
2007	- The Univers...
2008	- St. Peterb...



# ITMO HIGHPARK

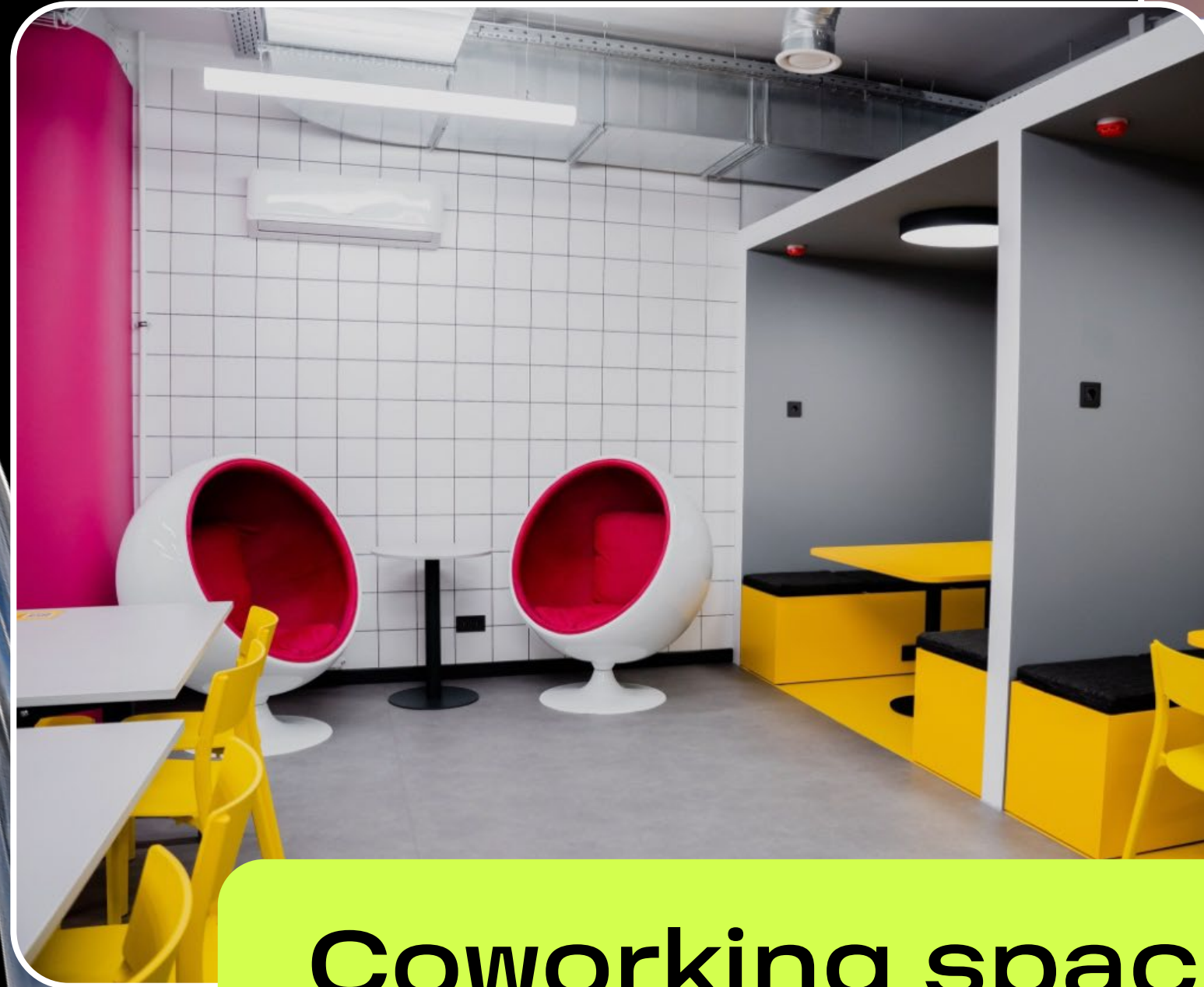


### ITMO Highpark: target figures

3,000	600	6,000	members of supporting and service staff
Master's students	PhD students	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.LIVE: graduation, ITMO-style



ITMO Open Education: rave-style education expo



Open Science Rocks: ITMO's major science festival



# 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