



# iTMO

## 2025



# ITMO — A RESEARCH AND EDUCATIONAL CORPORATION

Smart environments

Lifestyle

Talents

International opportunities

Science and technologies

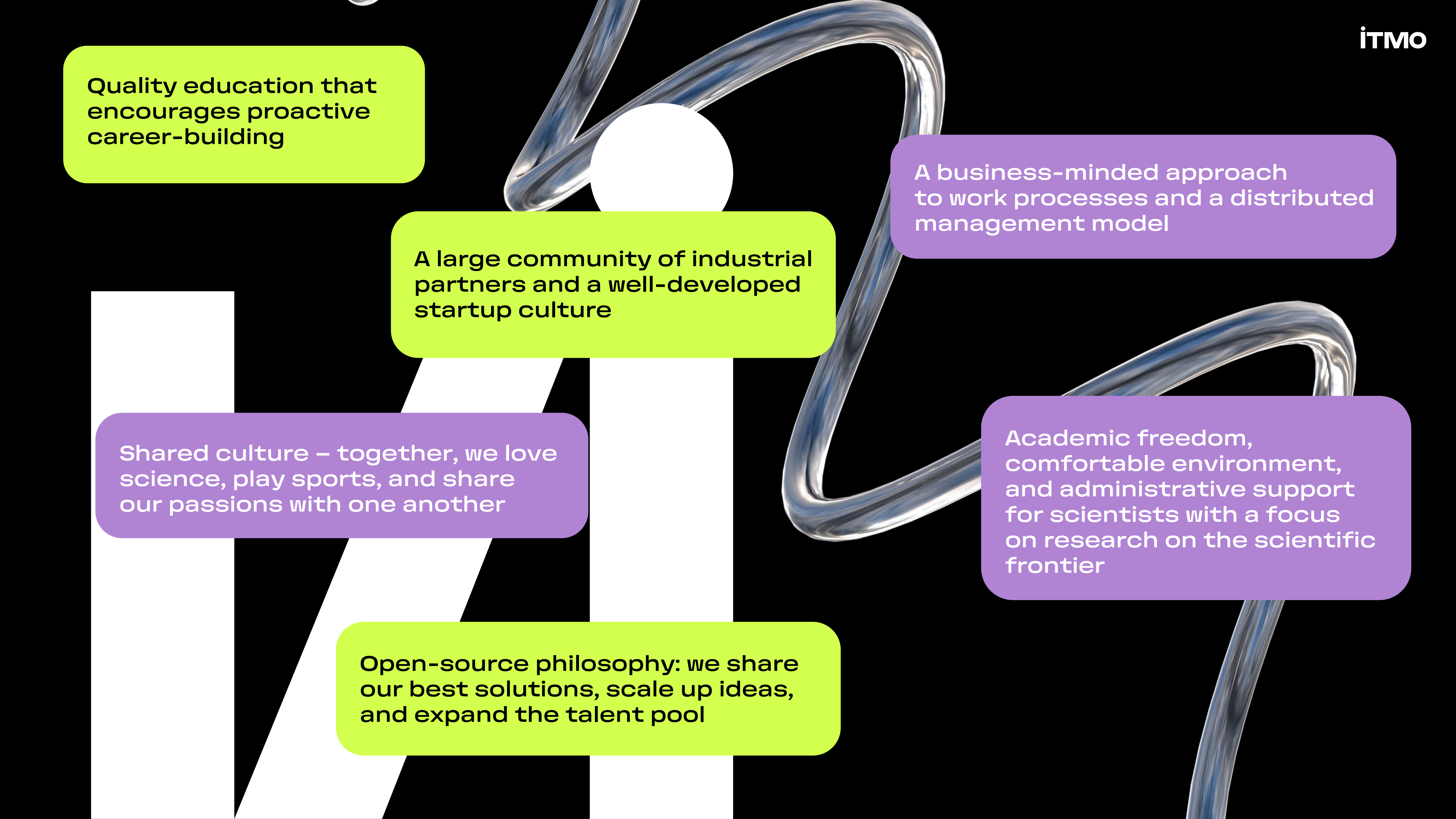
Development

Creative freedom

Innovations

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

ITMO 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



**it's**MOre 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



41st

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

174th

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



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

Yandex Education

2nd

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



ARWU  
101-150

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

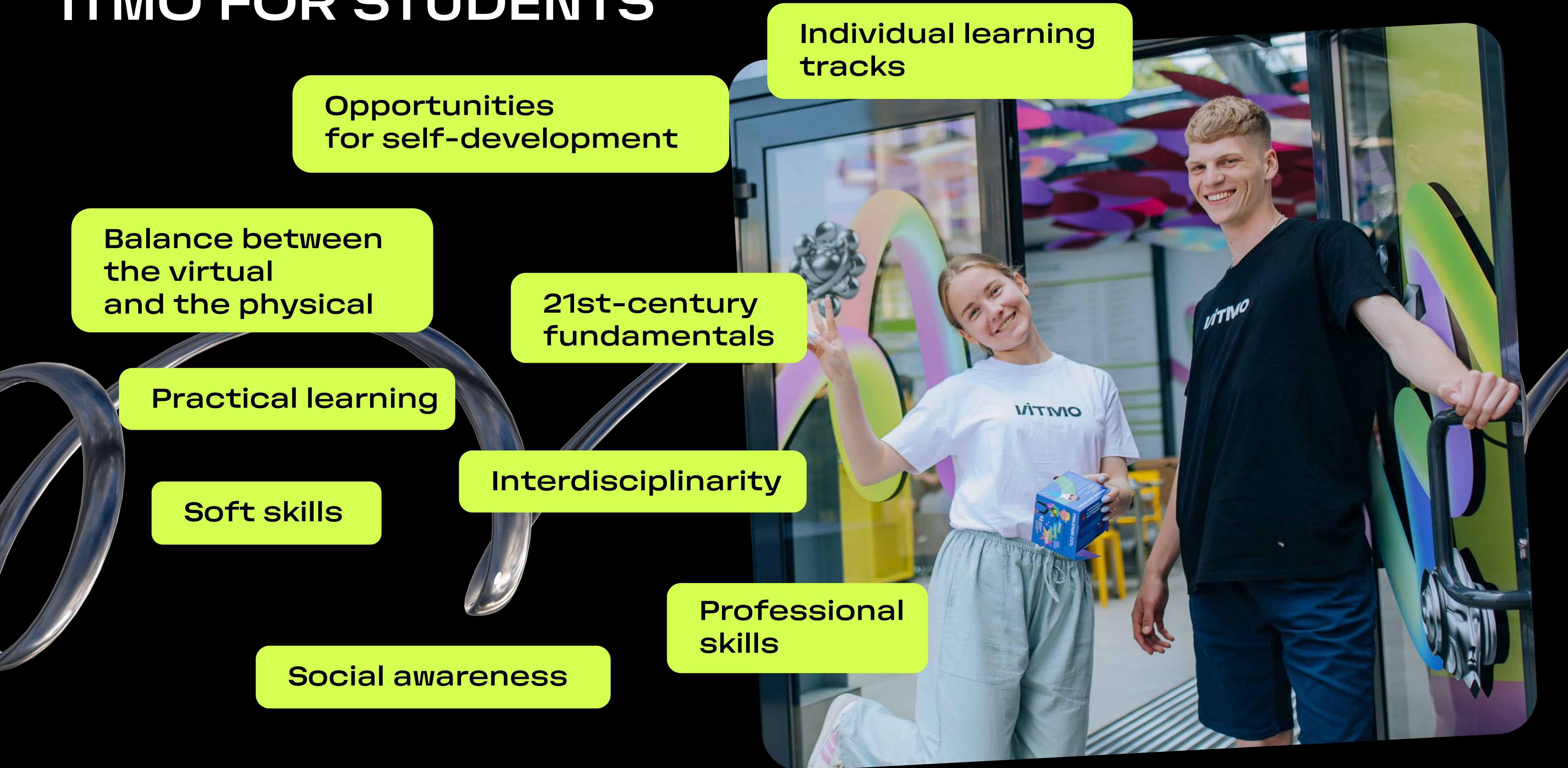


5th

by quality of admissions  
according to the Higher  
School of Economics

# 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

## 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

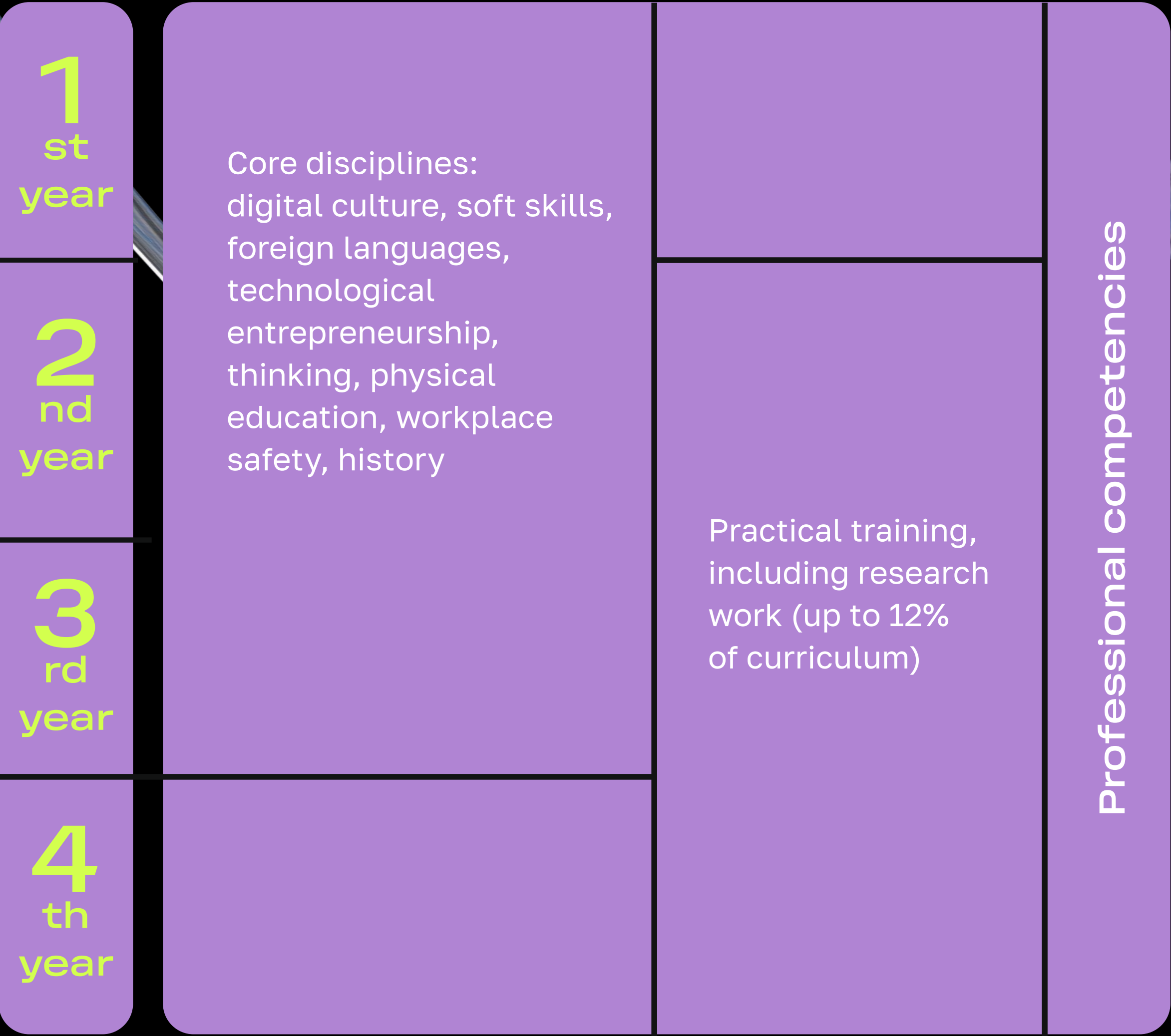
## FACULTY OF TECHNOLOGICAL MANAGEMENT AND INNOVATIONS

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

# EDUCATIONAL MODEL

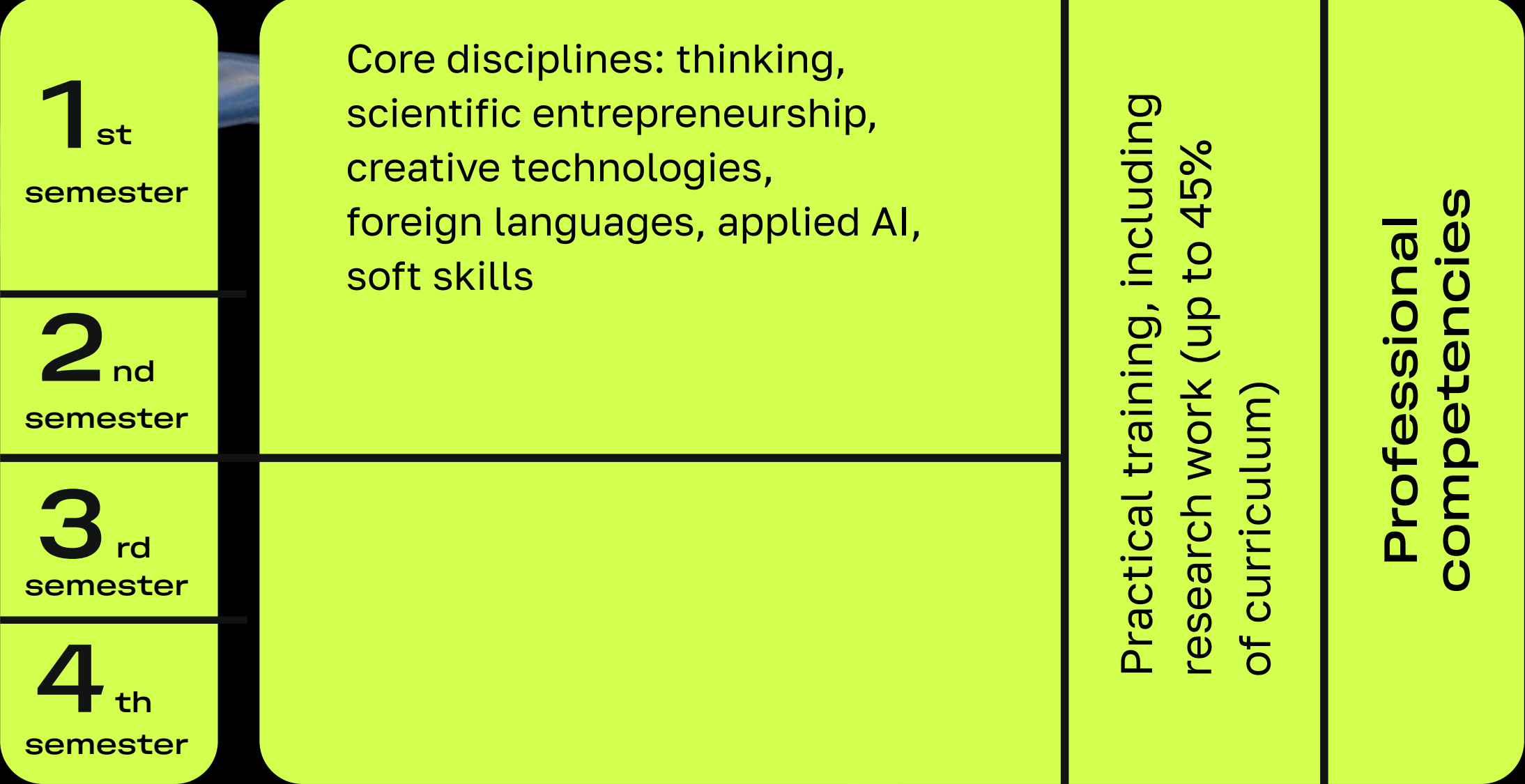
## Bachelor's programs

Individual educational tracks



## Master's programs

Individual educational tracks



## PhD programs 3-4 years

Academic disciplines + research

# ITMO FOR SCHOOL STUDENTS

ITMO

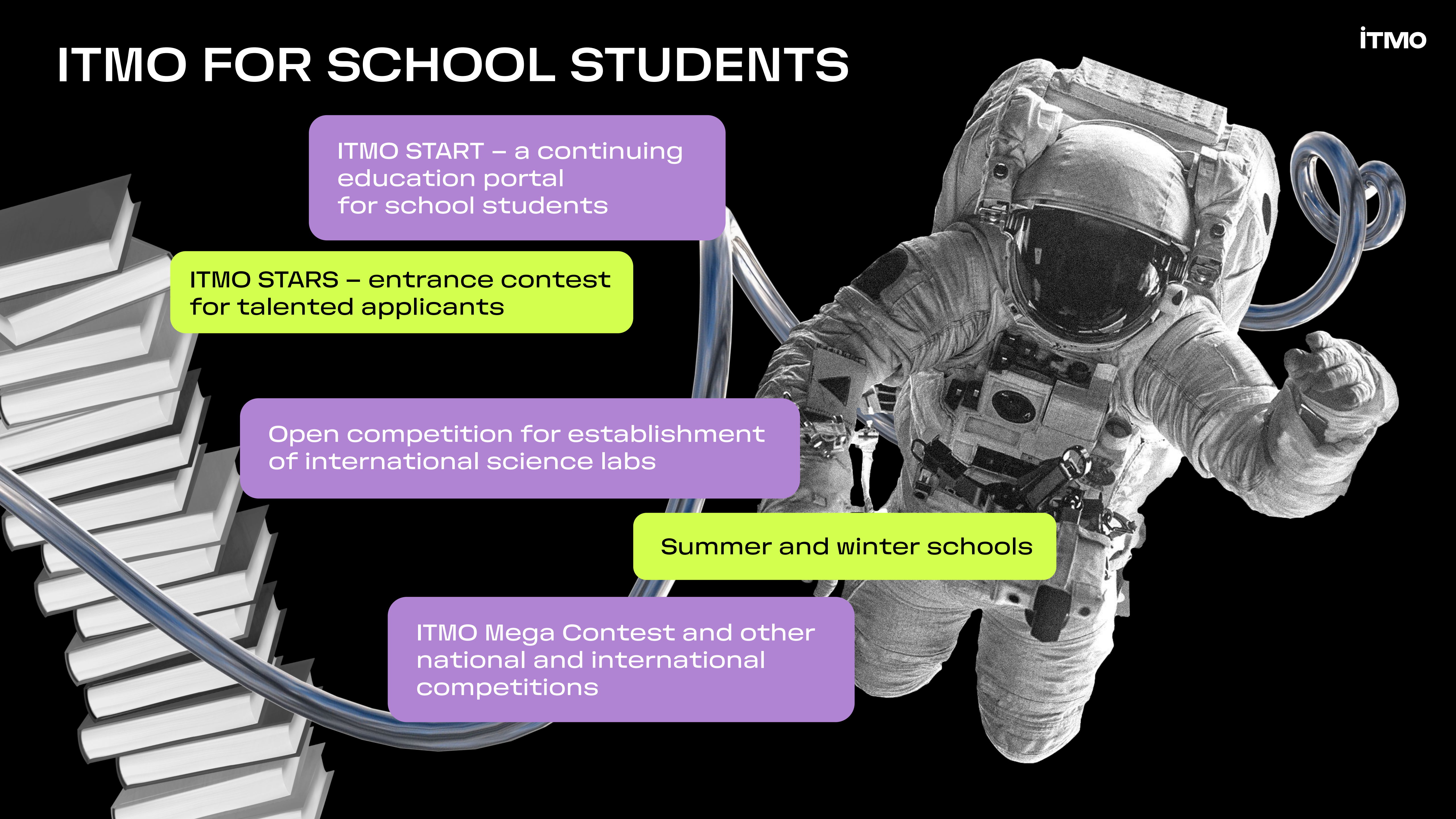
ITMO START – a continuing education portal for school students

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

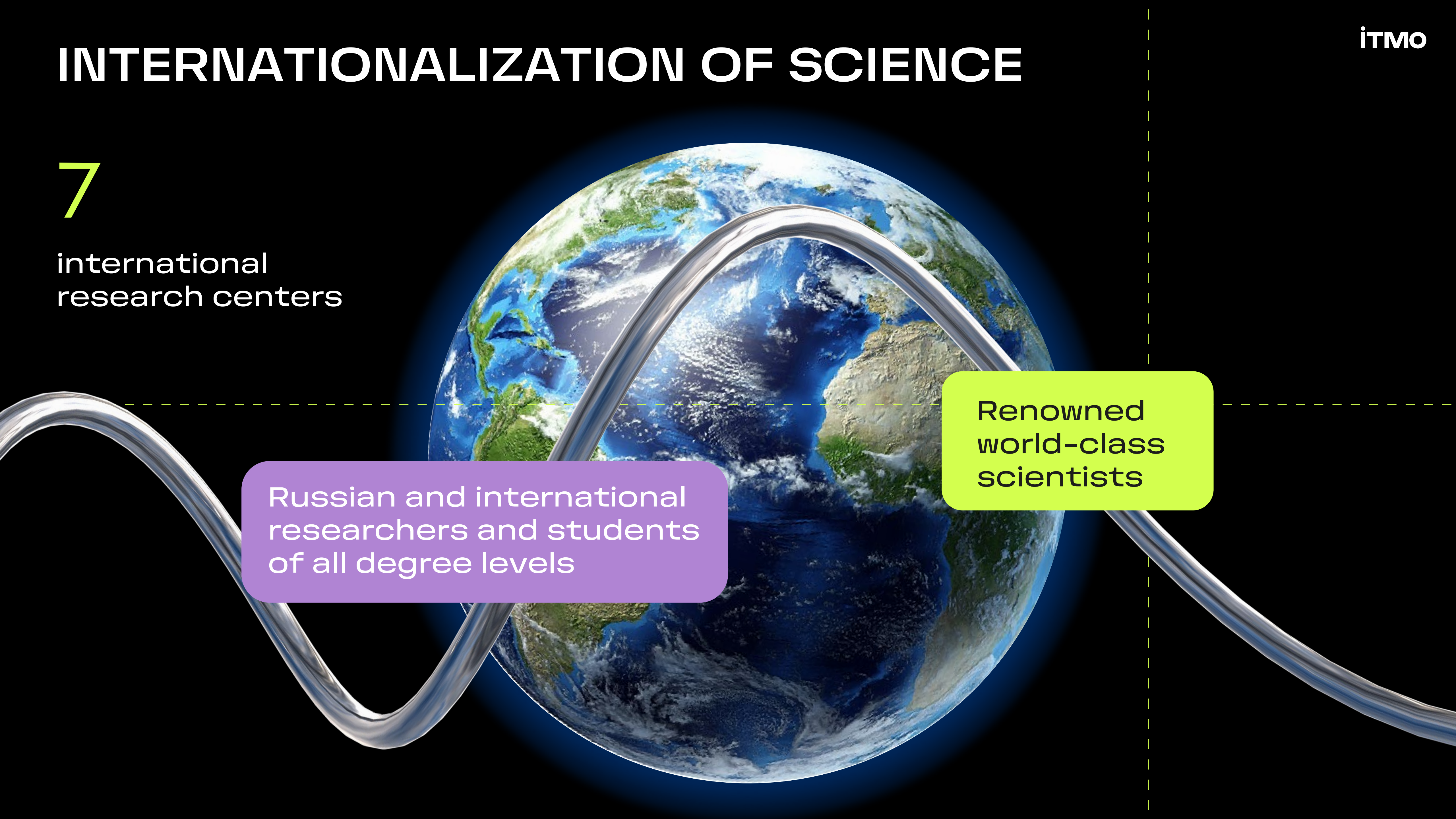
# INTERNATIONALIZATION OF SCIENCE

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

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

ITMO

## 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



x7

1995 - Albert-Ludwigs-Universität  
1996 - U. of California, Berkeley  
1997 - Harvey Mudd College  
1998 - Charles University  
1999 - University of Waterloo  
2000 - St. Petersburg State University  
2001 - St. Petersburg State University  
2002 - Shanghai Jiaotong University  
2003 - The University of Wisconsin  
2004 - St. Petersburg University ITMO  
2005 - Shanghai Jiaotong University  
2006 - Saratov State University  
2007 - The University of Wisconsin  
2008 - St. Petersburg University ITMO

# 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



Digital library

FREE!

Litres

Coworking spaces

24/7



# ITMO Family Day – a summertime open-air festival and graduation ceremony



# ITMO FAMILY: AN ENVIRONMENT FOR GROWTH



The bi-annual bike ride with the Rector

Join us!

ITMO *re than a*  
UNIVERSITY

 itmo\_uni  spbifmo  itmo\_uni