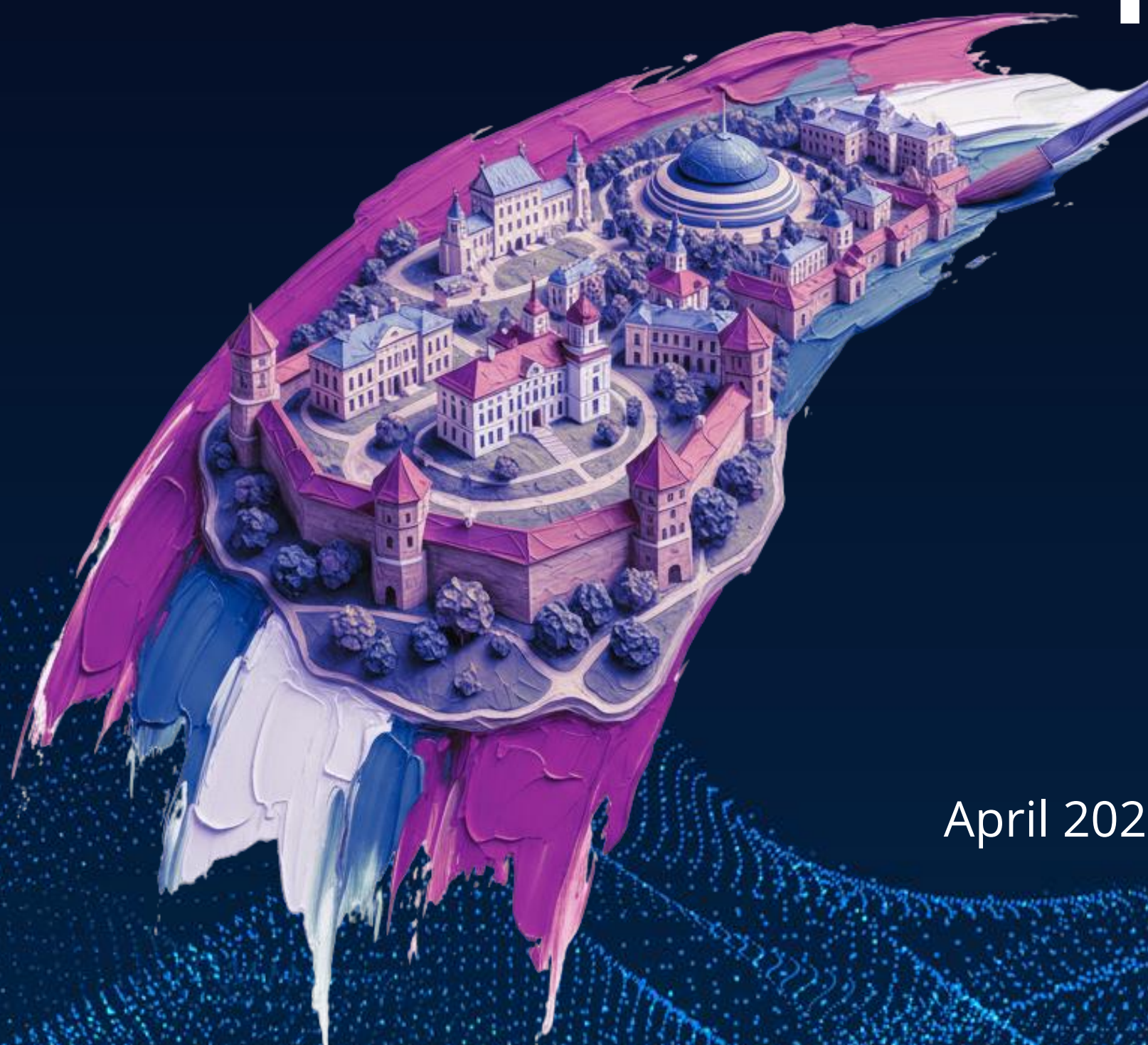


Belarus

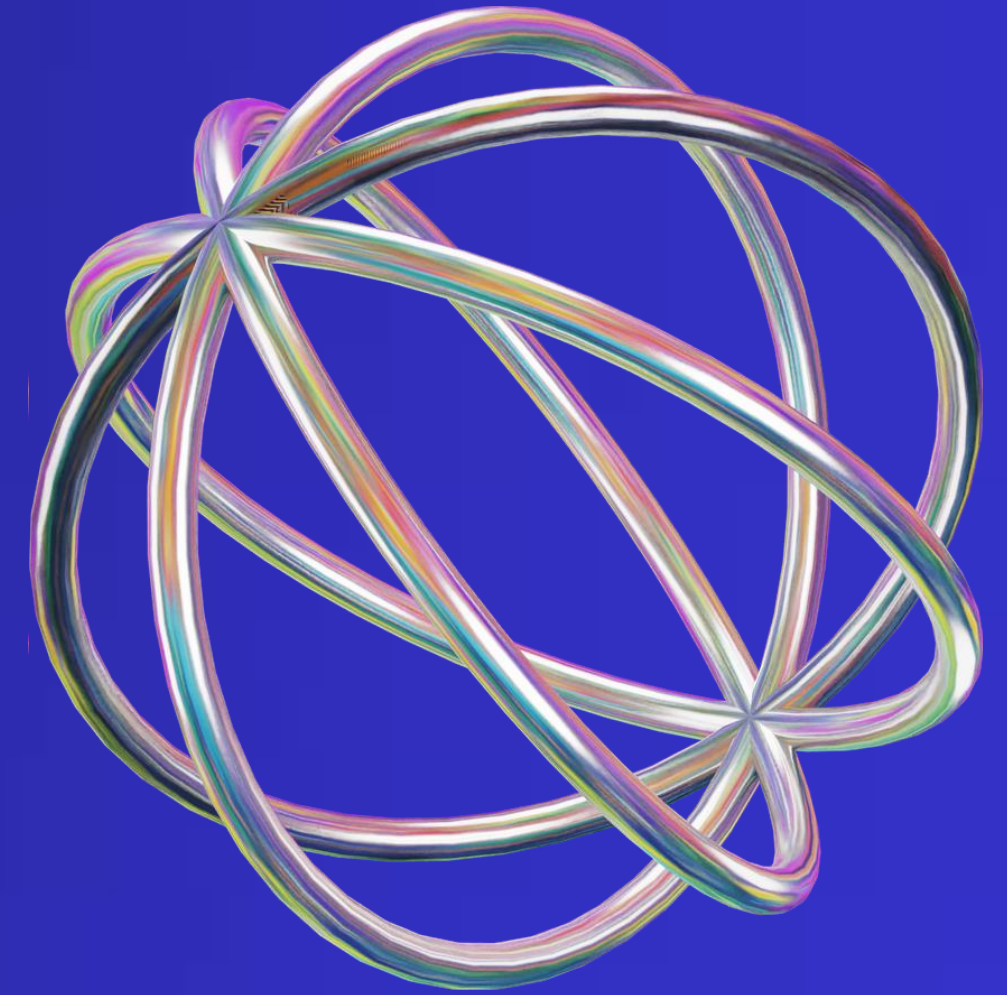
# Priority Fields of Higher Education Development

April 2026



Belarus has strategically developed higher education in sectors that directly contribute to **economic growth, technological sovereignty, and sustainable development.**

**Medicine, Robotics, Nuclear safety and Biotechnology** represent high-impact areas open for international academic cooperation.



# CLUSTER 1. MEDICAL EDUCATION

Belarus is recognized as a regional center for high-quality medical education, with thousands of international graduates over the past decades.

**4 specialized medical universities.**

**Belarusian State Medical University (BSMU):**

- General Medicine (6 years)
- Dentistry (5 years)
- Pharmacy (5 years)
- Preparatory Department (1 year, Russian or English)
- Clinical Residency in 64 medical specialties (2–5 years)

*Instruction is offered in **English and Russian.***

**Key Strengths:**

- Integration of innovative educational technologies
- Extensive video archive of high-tech and unique surgical procedures
- Multimedia-equipped departments
- Access to full-text international medical journal databases
- Strong clinical training base in major hospitals



## CLUSTER 2.

# ROBOTICS, DIGITAL ENGINEERING AND AI

Belarus has developed a strong engineering and robotics ecosystem aligned with Industry 4.0 trends.

**Belarusian National Technical University (BNTU)** - the leading engineering university:

Faculty of Information Technologies and Robotics:

- Automation and intelligent systems
- Mechatronics
- Robotics engineering
- Industrial digitalization

**Brest State Technical University:**

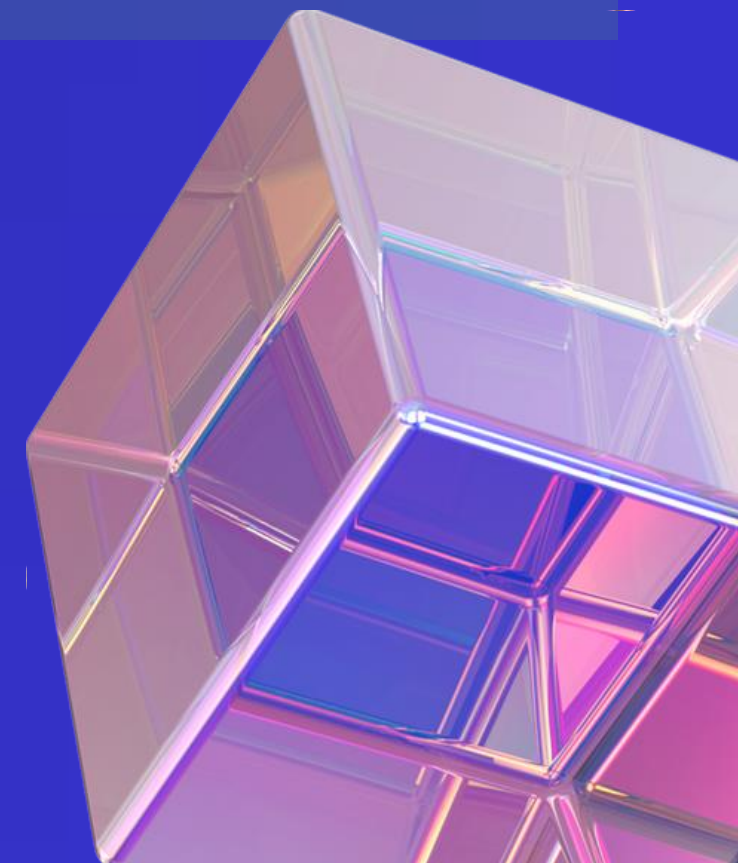
University Competence Center “**Industrial Robotics and Digital Engineering**” supports:

- Applied Robotic Systems
- Digital Engineering and AI
- Specialized Robotics Technologies

**Belarusian State Pedagogical University named after Maxim Tank:**

**Republican Resource Center for Educational Robotics:**

- Training modern teachers of physics, mathematics, computer science
- Equipped with robotics kits, 3D printers, advanced computer systems
- Focus on STEM education development



# CLUSTER 3. NUCLEAR AND RADIATION SAFETY

**Belarus possesses unique expertise in nuclear safety:**

- Experience in addressing the consequences of the Chernobyl disaster
- Operation of the **Belarusian Nuclear Power Plant** (launched in 2023)

**International Sakharov Environmental Institute of Belarusian State University:**

- Nuclear and radiation safety
- Environmental monitoring
- Radioecology
- Risk assessment
- Emergency response systems

Belarus' expertise in radiation safety is **internationally recognized (IAEA)** and relevant for countries developing or expanding nuclear energy programs.



# CLUSTER 4. BIOTECHNOLOGY

## **Polessky State University:**

### Industry Laboratory “DNA and Cellular Technologies in Crop and Livestock Production”

- Clonal micropropagation in vitro
- DNA certification of plant varieties and hybrids
- Development of genetically homogeneous planting material

*The laboratory implements the “Education–Science–Practice–Business” model, allowing students to participate in real R&D projects and industrial practice.*

## **Belarusian State Agricultural Academy:**

- Marker-assisted selection
- DNA typing for disease resistance and quality traits
- Development of new plant genotypes
- Energy-efficient LED technologies for in vitro plant propagation (more than 20 plant species)



- **Belarusian State University** (Biotechnology)
- **Belarusian State Technological University** (Biotechnology)
- **Yanka Kupala State University of Grodno** (Fundamental and Applied Biotechnology)
- **International Sakharov Environmental Institute of Belarusian State University** (Environmental Biotechnology)

# These fields directly contribute to:

- Healthcare system development
- Industrial modernization
- Nuclear safety infrastructure
- Food security and agricultural innovation
- Technological independence
- Sustainable development goals



## Belarus offers:

- **Competitive tuition costs**
- **Programs in English**
- **Strong scientific schools**
- **Practice-oriented training**
- **Government-supported research infrastructure**

