

Results of BSUIR participation in the BELARUSMEDICA 2026 International Medical Forum

May 12–15, 2026

Republic of Belarus, Minsk
Minsk International Exhibition Center
(24 P. Medyolki Str.)

The BELARUSMEDICA 2026 exhibition brought together international and Belarusian companies from the medical and pharmaceutical industries, as well as developers of new diagnostic technologies.



Within the collective exposition of the Ministry of Education of the Republic of Belarus, **Belarusian State University of Informatics and Radioelectronics presented the following developments:**

1. A system of diagnosis and patient-specific therapy for respiratory failure.
2. Photonic sensors for molecular analysis of chemical compounds and biological fluids using SERS spectroscopy.
3. Kit for forming an athermal coating for sterilization of the surface of medical devices.
4. Self-cleaning porous filters with plasmonic and photocatalytic nanoparticles for face masks.
5. High-frequency cavitation indicator.



The above developments attracted the interest of specialists from a number of organizations in the Republic of Belarus (including Belintelmed, Republican Scientific and Practical Center for Pulmonology and Phthisiology, and AK Automation among others). The discussions focused on the functionality and advantages of the exhibited developments, as well as on the supply of components for establishing in-house production at the BSUIR Science and Technology Park and conducting joint research at the intersection of medical and engineering sciences.



In addition, **Oleg Zelmanski, Associate Professor of the Information Security Department at BSUIR**, took part in the national scientific and practical conference with international participation “Current Issues in Pulmonology and Phthisiology”. He delivered a presentation entitled “Experimental Setup for Automated Real-Time Determination and Patient-Specific Correction of Oxygen Therapy Parameters Based on Current Patient Condition”.

As a result of participation in the forum and exhibition, BSUIR received two diplomas and one certificate.

