



**Belarusian State University
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R&D Department

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Announcement

XXVII International Exhibition and Congress "High Technologies. Innovations. Investments» (HI-TECH'2021)

April 21 – 23, 2021

Saint Petersburg, Russian Federation

About

The HI-TECH Exhibition and Congress is one of the first events in Russia in promoting high technologies, innovations and investment projects in the scientific and technical sector, which fosters effective interaction between scientific organizations and potential investors.

Traditionally, the main exhibitors are state research centers, research institutes, universities, industrial enterprises, technology parks and regional expositions that demonstrate their innovative achievements.

As part of HI-TECH'2021, Saint Petersburg will hold the Competition for The Best innovative Project and Scientific and Technical Development of the Year.

Sections:

- Additive technologies
- Wireless technology
- Biotechnologies: genetic engineering and gene therapy, microbiology, pharmaceuticals and pharmacology
- Industrial information technologies
- Nanomaterials and nanotechnologies
- Industrial robotics
- Security systems: biometrics, sensors, detectors, electronic analyzers, surveillance systems
- Machine vision technologies
- Technologies for the development and training of engineering personnel: training methodology, educational programs, training technologies

- Smart / digital manufacturing
- Environmentally friendly technologies, alternative energy
- Automation of industrial enterprises
- Innovative materials: plastics, composites, polymers, RTP

BSUIR will showcase high-tech developments

1. Atmospheric discharge plasma generation system

It is an energy-efficient device for generating cold atmospheric plasma for modifying the surface of objects of various nature, including biological tissues.

In optics and electronics, it is used in cleaning and activating surfaces and applying coatings; in healthcare - in the sterilization of instruments and implants, the treatment of open wounds, the treatment of skin diseases, including cancer; in agriculture – for the activation of seed material; in ecology – in the cleaning of gas and liquid media.

Advantages: the device and technology of processing with the use of cold atmospheric plasma allow for non-destructive changes in the surface properties of materials of various nature.

2. Flat source of high-density inductively coupled plasma

The inductively coupled plasma source is designed to form a high-density process plasma of inert and chemically active gases.

It is used in microelectronics, optics and mechanical engineering for forming nanostructures, etc.

The source of inductively coupled plasma VIP-200 allows processing substrates with a diameter of 200 mm with an unevenness of +5%, discharge power up to 2 kW.

[Official website](http://www.science.bsuir.by)