

## **03.04.01 Applied Mathematics and Physics**

### **Charged Particle Accelerators for MEGASCIENCE Facilities**

#### **Program objective**

to train highly-qualified specialists in operating accelerating equipment and studying charged particle beam physics.

#### **Curriculum features:**

- charged particle accelerators;
- super high frequency equipment;
- physical electronics;
- electronic systems of nuclear and physical facilities;
- radiation technology;
- microwave technologies, radio-frequency engineering and microwave power

#### **Career opportunities**

electrophysical facilities design and their application in various fields of science, engineering, industry, medicine (for example, in Joint Institute for Nuclear Research (Dubna, Russia), Nuclotron-based Ion Collider Facility Project (NICA)).