

## **Master dual degree program "Quantum Metrology and Optoinformatics**

### **(12.04.03 Photonics and Optoinformatics)**

**Partner university:** E. A. Buketov University of Karaganda (Karaganda, Kazakhstan)

#### **Program supervisors**

Petr Borisyyuk – associate professor, MEPhI Department of Physical and Technical Issues in Metrology, Candidate of Physical and Mathematical Sciences

Svetlana Karstina – Chief of Postgraduate Education Department, E. A. Buketov University of Karaganda, Doctor of Physical and Mathematical Sciences

#### **Program objective:**

training of metrologists with fundamental physical and technical knowledge to provide research, design, production, as well as technological, organizational and managerial activities in modern metrology.

#### **Competitive advantage:**

Combination of deep physics and engineering training with research at the cutting edge of science.

#### **Curriculum research areas**

- condensed matter physics
- astrophysics and cosmology
- mathematical modeling
- physics of ultrahigh laser fields
- nanostructure physics
- quantum physics, quantum informatics and quantum computers
- design of devices and facilities for metrology of physical measurements.

#### **Future employment opportunities**

leading Russian and foreign research centers and companies specializing in fundamental and applied research.