

## **Master dual degree program "Plasma Physics"**

**Partner university:** al-Farabi Kazakh National University

**Major:** 16.04.02 High-Tech Plasma and Power Facilities

**Study language:** Russian / English (for English speaking students)

The program is aimed at training masters, who are able of conducting high-quality R&D activities in the field of plasma physics and plasma technologies and of working in high-tech industrial and business organizations.

The program provides courses on theoretical and applied physics of plasmas, including such fields as:

- physics of low- and high-temperature plasma
- physics of dense plasmas
- methods of plasma diagnostics
- technological applications of plasma
- mathematical modeling of plasma processes

### **Curricular activities:**

- participation in major Russian and international conferences
- practical training at leading Russian research organizations (NRC «Kurchatov Institute», TRINITI, General Physics Institute of the Russian Academy of Sciences, Laser and Plasma Institute of the Russian Academy of Sciences, etc.).

### **Program Supervisors**

Valeriy Kurnaev – Head of MEPhI Plasma Physics Department, Doctor of Physical and Mathematical Sciences

Sandugash Kodanova – Head of KazNU of Plasma and Computer Physics Department, Candidate of Sciences

### **Future career opportunities:**

Engineer and research positions at leading Russian and foreign research centers and companies that specialize in laser and plasma industrial technologies.

### **Prerequisites:**

- completed bachelor degree (with majors in mathematics, physics, engineering or equivalent degrees)
- pre-intermediate English level.