

Postgraduate Program Abstract

"The name of the program"

Scientific specialty Code 2.2.3 **"Technology and equipment for the production of materials and electronic devices"** (Technology and equipment for the production of materials and electronic devices)

Graduating Department: Department of Micro- and Nanoelectronics (No. 27) and Department of Electronics (No. 3)

Full-time form of education

Study period: 4 years

Curator of the program: Ph.D., Associate Professor, Dept. 27 Yury Alexandrovich Voronov, yavoronov@mephi.ru

Program goal:

The purpose of the postgraduate program is the preparation by a postgraduate student of a dissertation for the degree of candidate of technical sciences in the field of development and manufacture of materials and devices for electronic technology (mainly semiconductor).

Postgraduate students are invited to participate in experiments on the design, manufacture and testing of semiconductor devices and integrated circuits, including VLSI, R&D, grants dedicated to solving these problems, etc.

Direction of scientific research:

Directions of research according to the passport of the scientific specialty of the relevant field of science (at the moment we are working on projects)

Partner organizations for joint scientific research:

JSC NPP Pulsar, GK Mikron, JSC NPP Istok Shokin name and others

Scientific groups, scientific laboratories, centers of National Research Nuclear University MEPhI (if any):

International research laboratory "Engineering of nanoelectromechanical systems and sensors"

Technological laboratory 27 Department

Laboratory for the design of specialized integrated circuits on the basis of the Department of Electronics (No. 3)

Laboratory of Complex Technology of Semiconductor Devices of the Center of Radio Photonics and Microwave Technologies of the Institute of Nanotechnologies in Electronics, Spintronics and Photonics Center of Radio Photonics and Microwave Technologies of the Institute of Nanotechnologies in Electronics, Spintronics and Photonics

Center for Extreme Applied Electronics of the Institute of Nanotechnologies in Electronics, Spintronics and Photonics

Dissertation councils of National Research Nuclear University MEPhI (if any):

MEPhI.05.03