**11.03.04 Electronics and Nanoelectronics**

**Program Summary**

**Program title**: Electronic devices and equipment

**Program goals**: to prepare highly qualified bachelors for research institutes of the Russian Academy of Sciences, nuclear and other high-tech industries, education of harmoniously developed personality aware of their social role and the place of their profession in the general direction of development of informational technologies, actively participating in the tasks set by the Russian Government to increase the GDP, the development of students ' personal qualities and formation of universal and cultural competences in accordance with NRNU MEPhI standards of higher education.

**Duration of full-time program** - 4 years.

**Department**: Department of radio physics and electronics of SPTI NRNU MEPhI.

**Areas of expertise**: a set of tools, methods and techniques directed at theoretical and experimental research, mathematical and computer modeling, design, fabrication techniques, the use of materials, components, electronic devices, equipment and various vacuum, plasma, solid state, microwave, optical microelectronic and nanoelectronic machinery.

**The objects of professional activity**: materials, components, electronic devices, equipment, methods of their research, design and construction, production processes, diagnostic and technological equipment, mathematical models, algorithms for solving standard problems, advanced software and information support of process modeling and product design of electronics and nanoelectronics.

**Curriculum features**: Today electronics and nanoelectronics form, store, process and transfer huge amounts of information, i.e. they represent a physical platform for the implementation of information technology. The special training given in this field is in the study of modern electronic and semiconductor devices; principles of producing standard functional components; the basics of design and application of electronic devices.

**List of companies for internship and graduate employment**: laboratories, research and engineering divisions of the RFNC VNIIEF.