**09.03.02 Information systems and technologies**

**Program Summary**

**Program title:** Information systems and technologies

**Program goals**: to prepare highly qualified specialists in the field of computing hardware and information technology, in the field of research, development, implementation and maintenance of information systems and technologies for research and industrial organizations of the nuclear weapons complex, nuclear and other high-tech industries.

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

**Department**: Department of computing and information technology of SPTI NRNU MEPhI.

**Areas of expertise**: design and engineering, design and technology, technology, administrative, scientific research, innovative, installation and commissioning, service and maintenance related to computer systems and networks, information processing and management systems, CAD systems and information support products, research, development, implementation and maintenance of information systems and technologies, high-performance computing systems and technologies, including the structural units of RFNC-VNIIEF.

**Objects of professional activity**: information processes, technologies, systems and networks, instrumental (programmatic, technical, organizational) support; the ways and methods of designing, debugging, development and use of information technologies and systems in the areas of: engineering, instrument engineering, science, technology, education, medicine, administration, law, business, business, commerce, management, banking ; security of information systems and management of technological processes in the areas of: mechanics, engineering physics, energy, nuclear energy, power electronics, metallurgy, construction, transport, rail transport, communications, telecommunications, etc.

**Curriculum features**: the curriculum is built on the basis of the federal state educational standard of generation 3+ taking into account the professional requirements of RFNC-VNIIEF. The curriculum includes compulsory courses and elective subject , constituting 48.5% of the curriculum. This allows the student to actively participate in the formation of their educational trajectory. Professional course is aimed at exploring issues of information security, parallel computing, information processing technology, open source software, basics of optimization, systems administration, engineering services. Program graduates may work in a wide range of industries in various regions of the country.

**The list of companies for internship and graduate employment**: laboratory, research and engineering divisions of RFNC-VNIIEF.