**12.03.01 Instrument engineering**

**Program Summary**

**Program title**: Instrument engineering

**Program goals**: to prepare highly qualified specialists for research, design and industrial organizations of the nuclear weapons complex.

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

**Department**: Department of special instrument-making industry SPTI NRNU MEPhI.

**Areas of expertise**: development and production of equipment for nuclear munitions, automation systems and production management, instrument control, diagnostics and product testing, design-technological provision of technical preparation of production.

**The objects of professional activity**: the cluster of production units RFNC VNIIEF.

**Curriculum features**: the curriculum is built on the basis of NRNU MEPhI higher education standards taking into account the professional requirements of the RFNC VNIIEF. It includes the humanities, natural science , general technical as well as special disciplines, study of which is necessary to work at the RFNC, such as: Design and production of standard automated devices of nuclear weapons, Design and manufacturing of devices on the basis of SHS", "Radiation safety", etc. Disciplines are taught by experienced teachers, having a scientific degree or being leading specialists of the RFNC.

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