**The summary of the program**

**27.03.04 Management in engineering systems**

**The name of the Program**: Information technologies and hardware control in technical systems.

**The objectives of the program**: training bachelors with universal and subject-specialized competencies contributing to their social mobility and sustainability in the labour market, being able to work successfully in the field of activities related to design, research, production and operation of systems and means of control in industrial and defense industries, creation of modern software and hardware means of research and design, control, technical diagnostics and industrial testing of automatic and automated control, implementation of projects on introduction of modern information-packed tools and methods of automatic and automated control of technological processes at the industrial enterprise.

**The period of education**: for full-time students – 4 years, part-time students – 5 years, extramural students – 5 years.

**Graduating department**: Department of management and control in technical systems.

**The field of professional activities of graduates**: development, design, research, production and operation of systems and means of control in industry; creation of modern software and hardware means of research and design, control, technical diagnostics and industrial testing of systems of automatic and automated management at industrial plants.

**The features of the curriculum**: the main feature of educational process is a fundamental physics-mathematical and engineering training, which allows mastering basic and elective subjects. Research work of students is carried out in close connection with the work conducted at the department and research organizations of Rosatom.

The graduates of the department receive training to perform a wide range of tasks, first of all in the field of development and design:

- participation in the preparation of the feasibility study of projects, creation of systems and means of automation and management;

- collection and analysis of baseline data for the calculation and design of devices and systems of automation and management;

- calculation and design of individual units and devices of automation and control in accordance with technical specifications;

- development of design and working documentation, preparation of reports on completed design works;

- control of compliance of the developed projects and technical documentation with standards, technical conditions and other normative documents.

**The list of enterprises for practical work and employment of graduates**: the Federal state unitary enterprise «Integrated Plant «Electrohimpribor», JSC "Venta NTMZ", other enterprises of SC "Rosatom".