**The summary of the program**

**15.03.05 Design and technological support of engineering industries**

**The name of the program**: Computer design and manufacturing technology of products.

**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, construction, computer simulation, technologies and structural materials of universal and special mechanical engineering.

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

**The graduating department**: Department of engineering technology.

**The field of professional activities**: means, ways and methods aimed at the creation of competitive engineering products, improvement of the national technological environment; basing, development, implementation and monitoring of rules, regulations and requirements for engineering products of various utility purposes, technology of its manufacture and quality assurance; development of new and improvement of existing technological processes of manufacturing goods of machine-building production, means of equipment; creation of new and the use of modern means of automation, design methods, mathematical, physics and computer modeling of technological processes and machine-building industries; ensuring effective functioning of technological processes of machine-building production, means of their technological equipment, systems of automation, management, control, diagnostics and product testing, marketing research in the field of design and technological ensuring of engineering industries.

**The objects of professional activities**: machining and mechanical assembly production in the divisions of FSUE «Integrated Plant «Electrohimpribor» and enterprises of general machinery, main and auxiliary equipment, systems, tool machinery, tooling, design tools, mechanization, automation and management; systems of engineering companies, providing production, management, technical and metrological maintenance, safety, environmental protection; technical and planning documents, systems of standardization and certification; tools and methods of testing and quality control of engineering products; industrial and technological processes of machine-building industries, their technological, instrumental, metrological, diagnostic, information, and management support; warehousing and transport systems of engineering industries.

**The features of the curriculum**: the main feature of the educational process is a thorough engineering training and preparation connected with the study of different CAD systems, which allow to master basic and special disciplines.

The educational process of students is carried out in close connection with the work of the organizations of the SC "Rosatom": FSUE «Integrated Plant «Electrohimpribor» and machine-building plant "Venta".

Curricula undergo an audit in the structural units of the plant EHP in the department of the chief designer and the department of the chief technologist. The students have Industrial and pre-diploma practice at enterprises - FSUE «Integrated Plant «Electrohimpribor», machine- building plant "Venta". The students do final qualifying work at the FSUE «Integrated Plant «Electrohimpribor» and machine-building plant "Venta".

**The list of enterprises for practical work and employment of graduates:** the Federal state unitary enterprise «Integrated Plant «Electrohimpribor» and JSC "Venta NTMZ" GK "Rosatom", other industrial enterprises of defense or machine-building industry.