**09.03.03 Applied computer science**

**Program Summary**

**Program title**: Applied computer science in economics

**Program goals:** to prepare the bachelor to work successfully in the field of new informational technologies , give them universal and specialized competencies, aiding their social mobility and competitiveness in the labour market, to form social and personal traits of graduates: dedication, organization, diligence, sociability, ability to work in team, responsibility for the final result of their professional activities, public spirit, tolerance; to raise their general cultural level, to develop the ability to independently acquire and apply new knowledge and skills.

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

**Department**: Department of applied computer science of SPTI NRNU MEPhI

**Areas of expertise**: system analysis of the application area, the formalization of solving applied tasks and processes of information systems; development of requirements for the creation and development of an information system and its components; feasibility study of design solutions, development of projects of automation of applied processes and creation of information systems in application areas; implementation of design solutions using modern information and communication technologies and programming techniques; implementation of automation projects solving applied problems and creation of information systems in application areas; management of computerization projects of enterprises and organizations; training and consulting on the automation of solving applied tasks; support and exploitation of information systems; quality assurance of the automation of solving applied tasks regarding the creation of information systems.

**The objects of professional activity**: the behavior of economic agents, their expenditures and results, functioning markets, financial and information flows, production processes, as well as data, information, knowledge; applied and information processes; applied information systems.

**Curriculum features**: the curriculum is built on the basis of NRNU MEPhI educational standards. The elective part of the curriculum contains the disciplines, the study of which is necessary for the organization of information support of the work of various RFNC-VNIIEF subdivisions and other city enterprises, the banking and insurance sectors, for example, "Designing information systems", "Databases", "Information security", "Network technologies in the economy", "Management of information systems in the economy".

The program trains students to work on projects, do technological, analytical, research, administrative work; active and interactive forms of classes (computer simulations, business and role games, analysis of specific situations, psychological and other trainings) are used in the educational process in conjunction with extracurricular work to form and develop professional skills of students.

**Enterprises for internship and employment of graduates**: RFNC-VNIIEF, VNIIEF-Konversiya, Avangard-Conversion, Sarov branch of Sberbank, Sarovbiznesbank, Volga leasing company, RFNC-VNIIEF Power Management, Expert-Audit, UMIAT-VNIIEF, FSR real estate agency, Sarov branch of the Pension Fund Sarov,Nizhegorodskiy region Interdistrict IFNS of Russia, Sarov branch of the Federal Treasury Department for Nizhny Novgorod region, City Administration, Youth center, etc.