The bachelor prepares for the following types of professional activity: calculation and design; research; organization and management; production and processing; installation and commissioning; service and operational. The area of professional activity of the graduates who have completed the undergraduate program includes research, design, construction and operation with technical devices which produced a heat, application and management of its streams and transformation of other types of energy into heat.

The objects of professional activities: TPP (steam and gas turbines, steam boilers and waste heat boilers, water treatment, flue gas cleaning systems); industrial and heating boiler-houses (boiler-house operator); heat networks; high-temperature units, smelters and refineries; compressor stations of thermal power engineering facilities, oil and gas industries; design, installation company in the field of power engineering.

**Specializations within this programme**

**Industrial Heating**

This is one of the most in-demand professions in a country with an extremely cold climate such as Russia. Graduates of the department work in industrial enterprises, thermal power plants, in the sphere of prevention and accounting of heat loss, in organizations managing heating, and in business enterprises of various levels. A deep understanding of the theory of thermal processes and the laws of receiving, transforming, and use of energy allow graduates to solve difficult issues of energy supply of various sectors of the economy, develop and implement high-efficiency equipment and technological processes into production which solve energy conservation issues. Graduates of the department maintain key posts in thermal power plants, in industrial energy complexes, in municipal services, and in the area of management. Modern industrial heating is a difficult 'organism', the life of which can be guaranteed only by high-class speci...