

Division: *Institute of Engineering and Technology, Department of Thermal Power Engineering*

Academic programme: *13.03.01 Thermal Power Engineering and Heat Engineering, major in Industrial Thermal Power Engineering*

Mode of study: *full-time, part-time*

Programme length: *4 years, 5 years*

Programme level: *Bachelor's degree*

Language of instruction: *Russian*

Programme description: *The programme was designed for industrial enterprises, thermal power plants, and design firms in the field of thermal energy. Thermal power engineering is a universal specialty which is not tied to any specific type of company. Thermal power engineers are in demand everywhere: thermal power stations, thermal networks, boilers. At factories and plants, thermal power engineers service compressor and pumping stations, air separation units, gas and air supply systems, industrial air conditioning systems, and heating and water supply systems. At thermal power plants, thermal power engineers work as boiler and turbine operators, steam and gas plant operators, linemen, installers, and repairmen. In housing and communal services, thermal power engineers work in heat supply and management companies. In addition, no building or industrial facility can be designed without thermal power engineers: only thermal power engineers can design heating networks, thermal boiler houses, gas piston plants, and heating, ventilation, and gas supply systems. Thermal power engineers also design steam generators, turbines, and heat exchangers. The demand for Thermal Power Engineering senior students and graduates is 2–3 times higher than the number of specialists who graduate from our department. Since they are not tied to specific enterprises, they can work in such companies as: OOO UstEK, OOO Teploenergobyt, OOO Generatsionnoye oborudovaniye, OOO Brant, OOO ChelyabinskSpetsGrazhdanStroy, AO Inter RAO – Elektrogeneratsiya, PAO ChMK, OOO Mechel-Energo, AO ChTsZ, AO ChEMK, PAO Rosneft, OOO Gazpromtransgaz.*

Main programme-specific classes:

- *Steam Generators and Boilers*
- *Thermal Power Plants*
- *Industrial Heat Supply Sources and Systems*

Programme manager: *(Head of the Department of Industrial Thermal Engineering, Candidate of Sciences (Engineering), Associate Professor Konstantin V. Osintcev)*