

# Power Engineering and Heat Engineering

## Siberian Federal University

Degree or qualification is awarded: **Bachelor**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **no**

Price: **176 934 RUB per year**

Programme webpage at the university website:

[http://edu.sfu-kras.ru/sites/edu.sfu-kras.ru/files/oop/annotations/AnnOP\\_13.03.01.0000\\_OF.pdf](http://edu.sfu-kras.ru/sites/edu.sfu-kras.ru/files/oop/annotations/AnnOP_13.03.01.0000_OF.pdf)

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The degree program is to create the conditions for the students to acquire the required level of knowledge, skills and experience for professional activities in the field of Heat Power Engineering and Thermal Technology.

### **The program tasks:**

- to form and develop humanitarian, social, economic, mathematical, natural scientific and professional knowledge in the students;
- to form social and personal qualities in the graduates: ambition, self-discipline, diligence, responsibility, civic consciousness, soft skills, tolerance, as well to increase the of their cultural level;
- to prepare the students for the analysis-and-project and drawing-and-designing activities, by enabling calculation, analysis and design of heat-power and heat technology elements, facilities and systems that are competitive in the world market, using the modern means design automation, taking into account the environmental consequences of their use;
- to prepare the graduates for industrial and technological, operational and installation and commissioning activities in the field of operation, service maintenance and testing, diagnostics and monitoring of heat and power equipment, in accordance with their education profile, in compliance with the requirements of environmental protection, ensuring the personnel health and industrial safety;
- to prepare the graduates for research activities, including interdisciplinary areas, related to mathematical modelling of processes and objects, conducting experimental research and analysis of its results, searching for resource-saving technologies in the heat and power engineering and heat engineering industries, using scientific and technical information and best practices in Russia and abroad;
- to prepare the graduates for organisational and managerial activities related to HR management (including an international team), decision making and mobilization of the team to perform complex tasks in enterprises, organisations and institutions of heat and power engineering and heat engineering industries;
- to prepare the graduates for independent learning and mastering new knowledge and skills, continuous self-improvement.

**Competitive advantages for a graduate:** constant demand for heat and power engineers in the job market.

**Employment:** control room operator, shift engineer, station engineer on duty, shop foreman, chief engineer, and chief power engineer.

### **Specializations within this programme**