

# Electrical Engineering and Thermoelectonics

National Research ITMO University

Degree or qualification is awarded: **Ph.D in Electronic and Thermal Energetics**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **299 000 RUB per year**

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Upon completion of their Ph.D. program, graduates will be able to work in the following fields: theoretical and experimental research, mathematical and computer modeling, design and engineering of materials, devices, electrical and heating equipment systems, techniques and methods of human activity on production, distribution of electric and thermal energy, the management of its directions and transformation of other forms of energy into heat; exploitation of modern industrial enterprises, transport systems, thermal, hydro and nuclear power stations, factories, power lines.

The graduates will have an understanding of thermal and nuclear power stations, energy supply enterprise systems, alternative energy sources; power units, combined-cycle and gas turbine power stations; heat pumps; fuel cells, hydrogen energy installation; heat and mass transfer devices for different purposes; thermal and electrical networks; thermal delivery systems, energy and thermotechnical installations; standardization systems; systems and diagnostics of automated process control in heating and electricity.

## **Specializations within this programme**

**Machines and equipment, processes of refrigerative and cryogenic technnics, conditioning and life-support systems**