Mechanical engineering

Peoples' Friendship University of Russia

Degree or qualification is awarded: **Postgraduate Course**

Language of study: **Russian**
Mode of study: **full-time, distance learning**
Duration: **4 years**
Availability of free education: **yes**
Price: **143 000 RUB per year for CIS students, 4 050 US $ per year for Int. students**

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Programme Focus

- Procedures and equipment for mechanical and physical-technical processing
- Heat Engines
- Turbomachines and combined turbines

As a result of the post-graduate program, the graduate should develop Universal competencies.

Professional skills are determined by the direction of the training. Candidates will - Develop the necessary mathematical model of working processes, systems, components and engines, thermal management bodies;

- build various characteristics of stationary and non-stationary modes of heat engines and make an assessment of their effectiveness;

- To carry out designing and engineering calculations.

Students receive professional training in such companies as:

MAMI, NAMI, TEC (thermal power plant) 16, CHP 20, CHP 26, FGUP MMPP "Salut"

Programme advantages

The educational programme helps the students to possess and develop the following professional abilities:

- Methods of diagnosing operational performance of heat engines;

- The methods of processing the results of experimental studies of heat engine performance;

- Methods of analysis of the quality of the received calculation, designing and engineering solutions.

The Programme also includes research activities in the following areas :

- Carrying out theoretical research in the field of Mechanical Engineering

- Physical chemistry, thermodynamic and mechanical basics of energy efficient thermal engines work at unsteady conditions;

- Modern methods of mathematical modeling workflows,

Graduates’ expertise and career opportunities:

- Research activities in the field of machine design and operation, drives, information and measuring equipment and tooling, mechatronics and robotic systems, automated production control systems and technological processes, systems design and technological preparation of production, instrumental techniques, new types of mechanical and physical and technical processing of materials, information space planning and business management programs of innovative activity in the conditions of modern engineering;

- Teaching activities on educational programs of higher education

Specializations within this programme