

# Theory and Structural Engineering

Peoples' Friendship University of Russia

Degree or qualification is awarded: **Master's Degree**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **284 100 RUB per year for CIS students, 4 600US \$ per year for Int. students**

Programme curator: **Vera V. Galishnikova**

Tel.: **+7 (495) 955-08-05**

E-mail: [galishnikova\\_vv@pfur.ru](mailto:galishnikova_vv@pfur.ru)

## Programme Focus

The aim of the programme is to educate highly qualified civil engineers with scientific and practical knowledge and skills for the following professional tasks:

- Feasibility study and adoption of design solutions for the whole construction project, coordination of work on parts of the project, implementation and execution of design works;
- Development of methods and software for the calculation of the design object, the calculated provision of construction projects;
- Developing innovative materials, technologies, structures and systems, including the use of scientific advances;
- Design supervision of the project implementation and quality control.

## Programme advantages

The program prepares graduates to carry out research, move on to postgraduate study on related topics, and hence educate future leaders in the field of construction.

## Graduates' expertise and career opportunities

- Computation theory and structural problems of designing buildings and structures
- Methods of solid mechanics in the design of structural elements; fracture mechanics and its application to the evaluation of structural element performance
- Modern methods of calculation of structural systems based on discrete and continuous models.
- Methods of optimal construction design;
- Modern methods of diagnosis and testing of structural elements. Problems of reliability and safe operation of buildings and structures.
- Structural engineering software. Computer-aided design of buildings and individual components.

## Specializations within this programme