

Mechanics and Mathematical modeling (in English)

Peter the Great St. Petersburg Polytechnic University

Degree or qualification is awarded: **Master of Mechanics and Mathematical modeling**

Language of study: **English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **280 800 rubles**

Programme webpage at the university website:

<https://english.spbstu.ru/education/programs/programs-in-english/master-s-degree/mechanics-mathematical-modeling/>

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Why applicants choose “Mechanics and Mathematical Modeling”?

- In-demand MSc program in English
- Strong fundamental base
- Leading professors from Polytech
- Top-ranked foreign professors
- Invited specialists from industry
- International academic mobility
- Prospective employment in R&D

We provide our students with fundamental background and practical skills in the following fields:

- Mathematical modeling and simulations
- Computational mechanics
- Distributed computing

Special focus is set on

Oil & gas production

Key competencies and skills that our students develop:

- Solving real-life professional problems
- Advanced knowledge in various fields of mechanics and mathematical modeling techniques

- Programming in C, C ++, C #, JavaScript, Python
- Carrying out projects in Matlab, Wolfram Mathematica and Maple programming environments
- Solving problems in Ansys and Abaqus packages
- Hands-on experience in machine learning

The list of theoretical courses covers the following fields of mechanics:

- Continuum mechanics
- Theory of elasticity
- Mechanics of engineering structures
- Thermodynamics
- Hydrodynamics
- Geology
- Micromechanics
- Mechanics of porous & granular media

Our students are welcome to do practice in

- REC Gazpromneft-Polytech
- Center for Scientific and Technical Creativity of the Youth «FabLab Polytech»
- REC Biomechanics and Medical Engineering

Our graduates work in

- Engineering companies
- Research and production companies
- Oil & gas industrial companies

You are welcome to apply for our program!

Specializations within this programme