

Mechanics and Mathematical Modeling

Peter the Great St. Petersburg Polytechnic University

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

Language of study: **Russian**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **209 000 - 218 400 RUB per year**

Programme curator: **Mr. Roman Philippov**

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The general concept of training is based on the combination of a large number of fundamental disciplines with courses that give an idea of modern computational methods and software packages for solving a wide range of mechanical problems. Graduates receive fundamental education that allows to apply the acquired knowledge in any field, and also prepares them for engineering and research activities; development and application of mathematical models and methods for solving mechanical problems; program and management support of research activities.

Supervisor of the programme:

Anton Krivtsov, Corresponding Member of the Russian Academy of Sciences, Professor of the Russian Academy of Sciences, Doctor of Physical and Mathematical Sciences, Head of the Department "Theoretical Mechanics"

Specializations within this programme

Mechanics of deformable solid body

The program is aimed at training highly professional scientists and engineers with the theoretical background and practical experience in theoretical mechanics, computational mechanics, IT, mathematical modeling and simulations, and distributed computing.

Mathematical modeling in gas and oil industries

The aim of the program is to train highly qualified engineers and world-class scientists, having both theoretical and practical knowledge and skills in the following areas: continuum mechanics; computational mechanics; programming (C ++); computer modeling (PDM, FEM); oil and gas exploration and development; oil refinery; project work. JSC Gazprom Neft is the main partner of this educational program, providing sponsorship for the development of scientific and material-technical base. Subjects related to the oil and gas, are taught by specialists from scientific and technical center "Gazpromneft NTC".