

Mechanics and Mathematical Modeling

Peter the Great St. Petersburg Polytechnic University

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

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **198 000 - 207 000 rubles**

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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.

Specializations within this programme

Mechanics and mathematical modeling media with microstructure

The program is aimed at training bachelors with extensive knowledge in the main areas of mathematics and mechanics, advanced computational methods and information technologies. It gives knowledge and skills oriented to mathematical modeling of physical and mechanical processes in condensed matter at various scale levels using discrete and continuum methods. Special attention is paid to media with microstructure as well as the problems at the intersection of mechanics and other fields of knowledge. The nature and level of training allows graduates to continue their master studies in this direction or choose another educational route.