

Mathematical and tool methods of economics

National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)

Degree or qualification is awarded: **Researcher. Lecturer-researcher**

Language of study: **Russian, English**

Mode of study: **full-time**

Duration: **3 years**

Availability of free education: **yes**

Price: **312 000 rubles per year**

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Basic department: Department of Economics and Management in Industry (№71)

Goals of the Program: preparation of graduate students who will be able to successfully develop mathematical and instrumental methods of economics, to apply these techniques in the development of innovative projects, to carry out an economic analysis of the effectiveness of investments in high-tech industry sector.

Characteristics of the scope and objects of professional activity of future graduates

Economic analysis of complex processes of creation of new and modernization of existing production systems and industrial complexes. Simulation of market relations of economic agents in high-tech sectors of the real economy. Conducting studies of the dynamics of economic processes in a complex socio-economic systems.

Objects of the professional activity

Objects of professional work and research in this area are households, businesses of all legal forms, associations and unions, economic regions, national and international economic systems.

The subject of research are the socio-economic processes and phenomena taking place in economic systems.

Brief description of the curriculum

Features of the curriculum is to solve the actual problems of innovation economy, the development and research of macro models of economic dynamics in conditions of equilibrium and disequilibrium, competitive economy, monopoly, oligopoly, a combination of different forms of ownership.

The training is planned to develop and research models and mathematical methods for the analysis of micro-economic processes and systems sectors of the economy, companies and enterprises, households, markets, mechanisms of supply and demand, the methods of quantitative evaluation of business risks and justify investment decisions.

The base of industrial and/or scientific practice and employment

Russian scientific centers; Rosatom; RAS institutes, industrial corporations, banks, funds, innovative structures.

Specializations within this programme