Geology, exploration and development of mineral resources

Peoples' Friendship University of Russia

Degree or qualification is awarded:

Postgraduate Course

Language of study: **Russian**
Mode of study: **full-time, distance learning**
Duration: **3 years**
Availability of free education: **yes**
Price: **319 200 RUB per year for CIS students, 4 200 US $ per year for Int. students**

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Programme Focus

The Programme includes the following training profiles:

- Mining and Oil and Gas deposits Field Geology, Geophysics and Geometry of bowels;
- Development and exploitation of oil and gas fields;
- Geotechnology (outdoor, underground and construction)

As a result of studying the discipline PhD student must:

- Have an idea: on the laws governing the distribution of minerals in the earth's crust geostructures, of ore-controlling factors and signs of deposits; - Know: classification features of the basic genetic and industrial types of deposits, methods of prognosis estimation of metallogenic objects of different hierarchical levels; - Be able to: diagnose the ore and host rocks, their composition and structural and textural features, identify necessary types and volumes of laboratory research in metallogenic analysis; build schematic metallogenic zoning and forecasting-metallogenic maps; express orally and in writing the results of their studies and defend their point of view in the debate.

Students receive professional training in such companies as:

in large mining companies, exploration companies ("Norilsk Nickel", ALROSA, RUSAL, Metalloinvest, Polymetal, KINROSS, BHP Billiton, Rio Tinto, and others.)

design and research institutes (TsNIGRI, TSIGEI, WIMS, IMGRE, etc),

institutions of Academy of Sciences (GIN, IGEM, the Institute of Geology of the Russian Scientific Center, RAS, and others.)

investment companies, as well as other organizations related to environmental management (engineering and surveying expedition, the organization for the extraction of non-metallic minerals).

Programme advantages

The educational programme helps the students to develop the following professional abilities:

It involves solving problems that require the use of basic and applied knowledge in the field of GEOLOGY, EXPLORATION AND DEVELOPMENT OF MINERAL RESOURCES.

The Programme also includes research activities in the following areas :

1. The Earth and its main geospheres - the lithosphere, hydrosphere, atmosphere, biosphere, their composition, structure, evolution and properties;

2. Geophysical fields, the field of solid and liquid minerals;

3. The natural, natural and economic, man-made, industrial, recreational, social, territorial systems and structures at the global, national, regional, local levels, their study, condition monitoring and forecasts;

4. Search, study and exploitation of mineral deposits; natural resources;

5. Geographical Information Systems; spatial planning, design and forecasting;

6. The environmental impact assessment of all forms of economic activity; education and public education.

Graduates' expertise and career opportunities:

• academic and institutional research organizations associated with the solution of geological problems;

• geological organization, exploration and mining companies and companies involved in prospecting, exploration and extraction of raw materials;

• organizations related to environmental monitoring and addressing environmental problems;

• educational institutions of secondary and higher education.

The graduate program is aimed at the development of all types of professional activity, in preparation of the graduate.

Specializations within this programme