

# Geoecology (by industry)

Far Eastern Federal University

Degree or qualification is awarded: **Candidate of Sciences**

Language of study: **Russian**

Mode of study: **full-time, part-time**

Duration: **3 years**

Availability of free education: **yes**

Price: **320 000 rub per year (full-time) / 160 000 rub per year (part-time)**

Programme webpage at the university website:

<https://www.dvfu.ru/upload/medialibrary/a06/%D0%9F%D0%B5%D1%80%D0%B5%D1%87%D0%B5%D0%BD%D1%8C%20%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%BC%20%D0%B0%D1%81%D0%BF%D0%B8%D1%80%D0%B0%D0%BD%D1%82%D1%83%D1%80%D1%8B,%20%D0%BE%D0%B1%D1%8A%D1%8F%D0%B2%D0%BB%D0%B5%D0%BD%D0%BD%D1%8B%D1%85%20%D0%B2%20%D0%BD%D0%B0%D0%B1%D0%BE%D1%80%202020%20%D0%B3%D0%BE%D0%B4%D0%B0.pdf>

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A specific feature of the main educational program "Geoecology (by industry)" is its universality for all branches of knowledge, science and Economics. The program is aimed at training specialists who not only have high-level competencies that can ensure the competitiveness of the enterprise in the organization of all types of environmental management, but also develop and implement advanced high-tech technologies, including geoinformation, in the field of environmental safety.

Tasks of mastering the main professional educational program for training highly qualified personnel in graduate school:

- formation of skills for independent research and teaching activities;
- in-depth study of the theoretical and methodological foundations of Earth Sciences;
- improvement of natural science education, including professional-oriented education;
- formation of skills and abilities to use modern information and communication technologies in research and teaching activities.

The objects of professional activity of graduates who have mastered the postgraduate program are:

- the earth and its main geospheres-lithosphere, hydrosphere, atmosphere, biosphere, their composition, structure, evolution and properties;
- geophysical fields, deposits of solid and liquid minerals;
- natural, natural-economic, anthropogenic, industrial, recreational, social, territorial systems and structures at the global, national, regional, local levels, their research, monitoring of the state and forecasts of development;
- search, study and exploitation of mineral deposits; nature management;
- geoinformation system;
- territorial planning, design and forecasting;
- environmental expertise of all forms of economic activity;

- education and public awareness.

A graduate who has completed the postgraduate program will be able to have the following professional competencies:

- readiness to research and substantiate current problems of Geoecology, rational use of environmental resources and resource conservation;
- the ability to assess and justify the dynamics, mechanisms, factors and patterns of development of dangerous natural and man-made processes, engineering protection of territories, buildings and structures;
- the ability to identify geoecological aspects of natural and technical systems, perform geoecological monitoring procedures and ensure environmental safety;
- the ability to design fundamentally new means of geoecological assessment of the territory in order to ensure environmental safety;
- willingness to use geo-ecological approaches to solving problems of environmental protection, including with use is information-analytical and geographic information systems;
- ability to carry out teaching activities for the implementation of professional educational programs in the field of Geoecology.

The training program is relevant for the Far East, where major state programs for the development of natural resources are being implemented in difficult natural and climatic conditions that cause high environmental risks. In accordance with this, a specialist in the field of Geoecology is in demand by modern production, regardless of the scale and form of ownership. In modern conditions, the guarantee of environmental safety is on a par with state, military, economic and personal security in terms of its significance.

Popular employers include industrial enterprises that operate in the oil and gas sector, forestry, metallurgy, environmental protection, and others. The completed research work of the program participant must meet the criteria established for the scientific qualification work (dissertation) for the degree of candidate of Sciences. In the future, graduates of this program will work in the structures of the oil and gas, metallurgical, environmental protection complexes, as well as in other innovative structures.

### **Specializations within this programme**