

2.8.3. Mining and oil and gasfield geology, geophysics, surveying and subsurface geometry



Уровень Training level: aspirantura
Form of training: aboutchnaya
Duration of training: 4 years old
Group of scientific specialties: *Subsurface use
and mining sciences*

Number of seats: 2 (contract)

Program Description

The purpose of mastering the postgraduate program is to write, design and submit for the defense of a dissertation for the degree of Candidate of Sciences, containing the solution of a scientific problem that is important for the development of the relevant branch of science.

Scientific specialty 2.8.3-Mining and oil and gas field geology, geophysics, surveying and subsurface geometry - a field of science pthat develops and improves the theoretical foundations for the formation of various types of oil and gas fields, geological and geophysical assessment of oil and gas potential, analysis and typification of miningand geological conditions for their development.

The program is aimed at comprehensive and high-quality training of scientific and scientific-pedagogical personnel in the following areas:

1. Origin and conditions of formation of oil and gas deposits:
geology of oil and gas fields, types of deposits, their classification; types of reservoirs and tires, migration of hydrocarbons.
2. Forecasting, prospecting, exploration and evaluation of deposits: - methodology of forecasting and criteria of oil and gas potential, methods of resource assessment; allocation of oil and gas accumulation zones.
3. Scientific bases of methods, tools, computer technologies of geological modeling of deposits of solid, liquid and gaseous minerals for their effective industrial development.
4. Laboratory and field geophysical methods and tools for studying the composition, structure, properties and condition of rocks and massifs.
5. Hydrogeological substantiation of rational methods, schemes and techniques for protecting mine workings from underground water, protecting and regulating underground water reserves.
6. Geological and geophysical assessmentof oil and gas potential, analysis and typification of geological conditions for the development of hydrocarbon deposits.