



### **1.6.11. Geology, prospecting, exploration and operation of oil and gas fields**

Уровень Training level: *aspirantura*  
Form of training: *aboutchnaya*  
Duration of training: *3 years old*  
Group of scientific specialties: *Earth Sciences*

*and the environment*

Number of seats: *2 (budget), 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 1.6.11-Geology, prospecting, exploration and exploitation of non-oil and gas fields - a field of science, занимающаяся рthat develops and improves the theoretical foundations for the formation of various types of oil and gas fields, studying the features of their geological structure and patterns of spatial distribution in various geotectonic regions of the Earth's crust; determiningm the geological prerequisites for the formation of deposits and search features improvement of methods of prospecting and exploration of oil and gas fields, assessment of their resources and calculation of reserves; geological justification of the development of oil and gas fields.

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. Modern methods of prospecting and exploration of oil and gas fields; improvement of methods of geological modeling and calculation of oil and gas reserves.
4. Geological support for the development of oil and gas fields.
5. Theory and solution of applied problems of subsurface and environmental protection in the course of geological exploration.