Specialist's Degree Program

UNDERGROUND MINING OF ORE DEPOSITS

The program is designed to train specialists whose work is related to the development of ore deposits.

Graduates work at enterprises in the exploration and mining industries.

Prerequisites:
- School leaving certificate of secondary (full) comprehensive education
- the results of the entrance examinations of Siberian Federal University
- good command of the Russian language

Qualification: Mining engineer

Skills/ objectives:
- Possession of skills in geological and industrial assessment of ore deposits of minerals;
- Implementation of a comprehensive justification of technologies and mechanization of the development of ore deposits of minerals;
- Development and implementation of technical solutions for product quality management in the development of ore deposits;
- Substantiation of the decision on the rational and integrated development of the geo-resource potential of ore mineral deposits;
- Possession of methods for ensuring industrial safety, including emergency situations, the design and operation of mining enterprises with an underground method of developing ore deposits of minerals;
- Knowledge of methods to reduce the burden on the environment and improve the environmental safety of mining during underground mining of ore deposits of minerals

Program length: 5 years 6 months
Starting date: September, 1st
Language of instruction: Russian
Tuition fee per year: -
Program Leader: Alexander N. Anushenkov

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Department of Underground Mining of Deposits

Professor, Doctor of Technical Sciences, Senior Researcher, Chief Researcher of the Institute of Mining of the SB RAS, Honored Veteran of the SB RAS.
UNDERGROUND MINING OF ORE DEPOSITS

CURRICULUM

- Processes of underground mining of ore deposits;
- Ore mining technology;
- Opening and preparation of ore deposits;
- Mine design;
- Fundamentals of underground mining of ore deposits;
- Computer modeling of ore deposits;
- Destruction of rocks by explosion;
- Mine technology;
- Fundamentals of Rock Physics;
- History and development of mining;
- Mining. Environment;
- Management of the state of the rock mass in underground mining;
- Resource-saving and integrated subsoil development;
- Design of technological complexes of stope excavation;

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