Master's Degree Program

ENVIRONMENTAL MONITORING

The program is designed for people with higher education and who want to expand their knowledge, skills and abilities in the field of environmental monitoring and environmental safety. The program introduces the concepts and methods of integrated observation of the environment, natural ecological systems and the processes occurring in them.

Modern approaches of biological monitoring, as the main tool for studying environmental changes, are one of the main directions of scientific research of undergraduates. The development of practical skills is ensured by conducting training sessions and research work of students in a modern, well-equipped laboratory of SibFU.

Prerequisites:

- Higher education of any level, confirmed by documents.
- Entrance examinations are conducted in the form of a written examination in Ecology and Environmental Management.
- Information about the individual achievements of the applicant is taken into account

Qualification: Master's degree in Ecology and Environmental Management

Skills/ Objectives:

- ability for research, expert, analytical, organizational and managerial activities in ecology and environmental management,
- possession of the fundamental scientific base and methodology of scientific creativity, modern methods of obtaining, processing and storing scientific information in the field of environmental monitoring
- ability to manage work on monitoring the quality of the environment, assessing the efficiency and safety of economic activities for the natural environment and humans.

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Program length: 2 years
Starting date: September, 1st
Language of instruction: Russian
Tuition fee per year: 170,000 RUB (~ 2250 USD)
Program Leaders: Yuriy Grigoryev

, professor, Cand.Sc. (Biology), Head of the Center for Ecotoxicology and Environmental Safety
Master's Degree Program

ENVIRONMENTAL MONITORING

CURRICULUM

- Physical and chemical methods of analysis and quality control of the environment,
- State, departmental and industrial monitoring,
- Standardization of the quality of environmental objects,
- Biomonitoring of the state of the environment,
- Environmental monitoring in waste management,
- Environmental management,
- Environmental monitoring of lands,
- Environmental monitoring of the atmosphere,
- Environmental monitoring of the hydrosphere
- Economics of nature management and environmental protection,
- Theoretical foundations for assessing the quality of the natural environment by the parameters of the cell and the organism,
- Ecophysiology of plants,
- Ecotoxicology,
- Geophysics and geochemistry of landscapes,
- Environmental expertise and EIA.

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