Master's Degree Program

SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL SAFETY

The program is designed for students with experience in the field of natural sciences and humanities, building a career in areas related to scientific activities, requiring the application of fundamental and applied knowledge and skills, including in the field of ecology, forest management and sustainable development, as well as environmental safety and environmental impact assessment and environmental expertise in industry and forestry.

The lecturers of the master's program are highly qualified researchers and production workers with special achievements in the field of forest ecology, sustainable forest management. As part of the educational process, open scientific seminars are regularly held to discuss topical environmental problems with the invitation of leading scientists from scientific and educational partner organizations.

During their studies, undergraduates receive the knowledge necessary for effective work in the scientific, expert-analytical and organizational and managerial spheres.

Learning process is carried out using modern unique special equipment of the Department of Ecology and Environmental Management, Laboratory of Biogeochemistry of Ecosystems of the Institute of Ecology and Geography, a branch of the Department at the Sukachev Institute of Forest, SB RAS, as well as at the Institute's Evenki and Sredne-Yenisei station in the Dendroecology and Ecology and Forest Monitoring Departments of the Institute and the Forest Protection Center of the Krasnoyarsk Territory.

Masters who are interested in dendroclimatic problems can receive appropriate training as part of the Scientific School, titled Dendroclimatic and Dendroecological Monitoring of Forests of Northern Eurasia under the guidance of Academician Eugene Vaganov.

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

Contacts:

Head of the Department
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Prerequisites:
- Bachelor's, specialist's or master's degree
- Written entrance exam in Ecology and Environmental Management
- Knowledge of English

Qualification: Master's degree in Ecology and Environmental Management

Skills/ objectives:
- the ability to solve research problems, interpret the obtained scientific results and determine the scope of their application in the field of ecology and nature management;
- the ability to conduct environmental analysis of the results of assessing the impact of enterprises on the environment, to assess environmental risks in order to predict the impact of economic activities on the environment using modern approaches and methods;
- the ability to monitor compliance with the requirements in the field of environmental protection.
Master's Degree Program

SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL SAFETY

CURRICULUM

- Dendroclimatology
- Natural and anthropogenic successions
- Radiation safety and protection
- Standardization of the quality of environmental objects
- Biomonitoring of the state of the environment
- Forest ecosystem services
- Environmental management
- Environmental design and expertise
- Environmental modelling
- Economics of nature management and environmental protection
- Productivity of forest ecosystems
- Voluntary forest certification in the system of sustainable environmental management
- Biogeochemical cycles of terrestrial ecosystems of Eurasia
- Forest fire ecology and fire management

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