



Educational program

# ECOLOGY AND NATURE MANAGEMENT (bachelor's degree)

Profile

## ECOLOGICAL ENGINEERING AND NEW ENERGETICS



Interested in 'green' career, cooperating with famous enterprises? Attracted by eco-friendly technologies, recycling and waste management? Searching for positive win-win solutions in ecology?



The Faculty Geography, PSU, offers a profile “Ecological Engineering and of New Energetics” within a 4 years’ bachelor's course in Ecology and Nature Management, for the study year 2020–2021.



*« We would be glad to see international students at the Faculty of Geography. Every year, we prepare high level specialists in environmental engineering, allowing them to fulfil their potential further, in Russia and abroad»*



**Andrey Zaytsev**

Dean, Faculty of Geography ,  
Perm State National Research  
University





Ecological aspects of economy are considered as a necessary condition for achieving world sustainable development. A modern environmental management system follows the principles of environment protection, energy and resources efficiency.


A certified ecologist demonstrates competencies in management and rational use of natural resources, green engineering and environment. He or she performs a variety of tasks, like creating and introducing sources of alternative and traditional energy.



The PSU course in Ecology covers the rational use of traditional and alternative energy sources, development of science and research base of environmental rate setting, as well as methods and tools of protection against negative physical, chemical and biological factors.



# ENTRANCE TESTS



Geogra  
phy

English

Russia  
n

Three entrance tests are Geography, English and Russian languages. All the international students are required to enroll for a preliminary 10-month course in Russian language before they start their studies. This is a common requirement to get an international student visa in Russia.

# Basic Courses and Natural Sciences

Undergraduate students study a variety of disciplines, to name Mathematics, History, Informatics, Logics, Economics, Sociology and Systems Theory, as well as natural sciences – Physics, Chemistry, Biology, Ecology, Geography and Geology.



# Professional Disciplines



Geochemistry  
Nature Management  
Applied Ecology  
Ecological Management and Audit  
Industrial Systems and Ecological Risks  
GIS in Ecological Engineering  
Ecological Monitoring  
Ecological Projects and Expertise  
Rate Setting of Atmospheric Pollution  
Rate Setting of Wastes  
Rate Setting of Water Pollution  
New Energetics and Environment  
Basics of Wind Power  
Basics of Solar Power  
Basics of Energetics of Water and Internal Parts  
of the Earth

# Workshops. Internships, Practical Skills



- on and off-campus projects
- research activities
- lab work
- undergraduate collaborations
- workplace internships at industrial enterprises



Graduates in ecology get job offers in environmental management and planning of energy systems, construction, industry and agriculture, etc.

Ecologists' competences are in high demand by governmental bodies, enterprises, industries and production companies, research centers and institutes.



# Uniqueness of the program

The program is run by a highly qualified team of professors and enables the use of top-level equipment and labs, with a practice-oriented approach. The program schedule includes joint projects, research activities and working placement internships.



# Meet our team, grow with us!



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