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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University**

Institute of Environmental Engineering

(educational division (faculty/institute/academy) as higher education programme developer)

Approved at the meeting of Academic
Council of RUDN University
Protocol № 2027-УСП-9
19.03.2026

PROFESSIONAL EDUCATION PROGRAMME OF HIGHER EDUCATION

Field of Studies / Specialty:

1.5.15 Ecology

(scientific speciality code and title)

Profile / Specialisation

Ecology: modern environmental studies

(PhD program title)

The Educational Programme is developed in compliance with:

Educational Standard of RUDN University, approved by order of the Rector of RUDN University No. 139 dated March 9, 2022.

Length of Educational PhD Programme:

4 years

(full-time education)


Educational PhD Programme Features: programme is implemented in English

AGREED by:

Head of Educational
Programme
Savin I.Yu.


(signature)

Head of Educational Policy
Department
Vorobyeva A. A.


(signature)

Head of Faculty



Savenkova E.V.

(signature)

Head of PhD Study
Department
Borisova A.S.


(signature)

2026 г.



1. EDUCATIONAL PROGRAMME GOAL

The goal of the PhD program is to prepare and defend a dissertation for the degree of Candidate of Sciences in the scientific specialty 1.5.15 Ecology

2. BRIEF SUMMARY OF THE PROGRAMME

Students in the program receive broad training, allowing them to specialize in all areas of ecology and nature management: systems ecology, environmental monitoring, biotechnology, raw material and product quality assessment, human ecology and environmental hygiene, etc. Graduates receive the necessary competencies to work in government agencies, at various industrial and fuel and energy enterprises, as well as in higher education. The program is interdisciplinary, which enables graduates to solve the most pressing global problems, such as climate change, water shortage, regulation of demand for natural resources, production and consumption waste management, and to assess the environmental sustainability of various regions of the world.

3. LABOR MARKET NEEDS FOR PERSONAL TRAINING IN EDUCATIONAL PROGRAMME PROFILE

Design, survey, research, production consulting, expert departments and divisions, bureaus and centers, companies, institutes in the field of earth sciences, ecology, nature management, geology; General education organizations, educational organizations, educational organizations of higher education. Labor markets that the program is aimed at: "Science/Education", "Consulting", "Medicine/Pharmaceuticals", "Extraction of raw materials" Industry, large, small and medium businesses, Energy, Construction, Chemistry and biology, Nature management, Recycling, Design, Municipal and public administration, Academic institutes.

4. REQUIREMENTS FOR APPLICANTS APPLYING TO THE PHD PROGRAMME

Persons who have a master's or specialists' degree and wish to master this postgraduate educational program are enrolled based on the results of entrance examinations, the program of which is developed by the organization.

5. STRUCTURE AND WORKLOAD OF THE EDUCATIONAL PROGRAMME FOR PhD STUDIES

Duration of mastering the postgraduate program: 4 years

Form of education: full-time.

One credit unit corresponds to 36 academic hours.

No.	PhD programme structure	Workload, credit units
1	Scientific Component	209
1.1	Research activity aimed at preparing for a thesis defense	209
2	Educational Component	25
2.1	Disciplines (modules)	19
2.2	Internship	6
3	Final attestation	6
PhD programme workload in credit units:		240

6. CHARACTERISTICS OF EDUCATIONAL PROGRAMME GRADUATE'S PROFESSIONAL ACTIVITIES

The area of professional activity of graduates who have completed the postgraduate program includes solving problems that require the application of fundamental and applied knowledge in the field of ecology and nature management.

The objects of professional activity of graduates who have completed the postgraduate program are:

- natural, natural-economic, anthropogenic, industrial, recreational, social, territorial systems and structures at the global, national, regional, local levels, their study, monitoring of the state and development forecasts;

- environmental assessment of all forms of economic activity;
- education and enlightenment of the population.

Types of professional activity for which graduates who have completed the postgraduate program are prepared:

- research activities in the field of ecology;
- teaching activities in higher education programs.

The postgraduate program is aimed at mastering all types of professional activity for which the graduate is prepared.

Teaching activities:

- teaching (pedagogical activities) in bachelor's, specialist's, master's degree programs, additional educational programs in the relevant field;
- development of educational and methodological support for the relevant educational programs;
- participation in career guidance activities of applicants entering postgraduate studies;
- scientific supervision in the preparation of articles for publication by students (postgraduate students, trainees), term papers, final qualifying works.
- professional support for assistants and teachers

Research activities

- organization and implementation of research activities,
- implementation of results;
- organization, management and implementation of research projects;
- control the results of research activities;
- participation in the work of research teams;
- ensuring the functioning of the quality management system;
- preparation of substantiated proposals for submitting applications for participation in competitions for investment in research activities;
- implementation of scientific supervision of students, young scientists;
- compliance with information security requirements in professional activities;
- effective work with colleagues and management;
- implementation of transfer of experience and knowledge to less experienced researchers and representatives of the non-academic community;
- organization and control of the effective use of data from external sources, as well as data obtained during the implementation of scientific (scientific and technical) projects;
- implementation of individual research assignments;
- conduct complex scientific research within the framework of ongoing projects;
- implementation of interaction with other divisions of the organization; - organization of practical use of the results of scientific (scientific and technical, experimental) developments (projects), including publications;
- implementation of changes necessary to improve the effectiveness of the scientific activities of the division;
- use of modern information systems, including scientometric, information, patent and other databases and knowledge, including corporate ones when performing project tasks and scientific research;
- compliance with the requirements of safety conditions and labor protection, environmental safety, including when performing scientific research.

7. LOCATION OF IMPLEMENTATION OF THE PHD PROGRAMME

The PhD program is implemented by the Federal State Autonomous Educational Institution of Higher Education Peoples' Friendship University of Russia named after Patrice Lumumba.

The information about partner organisations involved in the implementation of the PhD programme:

Internship and Scientific Research	Internship location
Pedagogical Training (stationary)	RUDN University, Moscow
Research activity aimed at preparing for a thesis defense (stationary)	RUDN University, Moscow; Third party organizations performing research and development, depending on the focus of the research

8. FEATURES OF EDUCATIONAL PROGRAMME IMPLEMENTATION

The PhD program is implemented with elements of DET (based on the TUIS platform).

The language of implementation of the PhD program is English.

The program is *not adapted* for teaching the disabled and people with disabilities.