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Федеральное государственное автономное образовательное учреждение высшего образования
«Российский университет дружбы народов имени Патриса Лумумбы»
Инженерная академия
(наименование основного учебного подразделения (ОУП) – разработчика программы)

Утверждена на заседании
ученого совета ОУП
протокол от 02 марта 2026 г.
№ 2022-08/07

**ПРОГРАММА ПОДГОТОВКИ НАУЧНЫХ И НАУЧНО-ПЕДАГОГИЧЕСКИХ
КАДРОВ В АСПИРАНТУРЕ**

Научная специальность:
2.1.7. Технология и организация строительства
(шифр и наименование научной специальности)

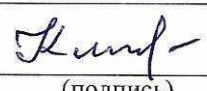
Направленность (профиль):
**Technology and Management in Construction / Технология и организация
строительства (англ.)**
(наименование программы подготовки научных и научно-педагогических кадров в аспирантуре)

Программа подготовки научных и научно-педагогических кадров в аспирантуре
разработана в соответствии с требованиями:
СУТ РУДН, утвержденных приказом ректора от 09 марта 2022 г. № 139

Срок освоения программы подготовки научных и научно-педагогических кадров в
аспирантуре:
4 года
(очная форма обучения)

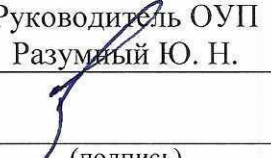
Сведения об особенностях реализации программы: реализуется на английском языке.

СОГЛАСОВАНО:

Руководитель программы
Клюев С. В.

(подпись)

Начальник УОП
Воробьева А. А.

(подпись)

Руководитель ОУП
Разумный Ю. Н.

(подпись)

Начальник ДАД
Борисова А. С.

(подпись)

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 2.1.7 Technology and management in construction.

2. BRIEF SUMMARY OF THE PROGRAMME

Level of higher education - postgraduate studies - training of highly qualified personnel.

The term for obtaining education under the postgraduate program in full-time education, including vacations provided after passing the state final certification, is 4 years.

The volume of the postgraduate program is 240 credits and includes all types of classroom, independent and research work of a postgraduate student, internship, as well as the time allotted for quality control of mastering the educational program by a postgraduate student.

The types of professional activity of the graduate are research activities in the field of construction engineering and technology and teaching activities in educational programs of higher education.

The place of implementation of the program is the Engineering Academy of the Peoples' Friendship University of Russia (Russia, Moscow).

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

Postgraduate studies allow to prepare scientific and teaching staff in the direction of training of the subgroup "Construction", the group of scientific specialties "Construction and architecture", the scientific specialty "Technology and management in construction", meeting the dynamically changing requirements and conditions in the modern labor market, in the main areas of professional activity in the field of construction, possessing modern methods of assessing technical and regulatory documents, systematized ideas, knowledge, skills and abilities in the field of practical activity, as well as the necessary skills and abilities of scientific research work.

The program for training scientific and scientific-pedagogical personnel in postgraduate studies in the scientific specialty "Technology and management in construction" enables graduates to solve the following professional tasks:

1. Development of scientific foundations of engineering surveys, design, construction, reconstruction and operation of buildings, structures and transport infrastructure facilities.
2. Forecasting and optimization of parameters of technological processes and systems for organizing construction and its production base, increasing the organizational and technological reliability of construction.
3. Creation and improvement of rational types of structures, buildings, structures for various purposes and their complexes, as well as development, improvement and verification of methods for their calculation justification.
4. Development of new and improvement of existing methods and organizational forms of housing and civil, industrial, municipal, energy, transport and other types of construction (reconstruction).
5. Improvement and development of new building materials.
6. Development and improvement of methods for testing and monitoring the condition of buildings and structures.
7. Theoretical and experimental studies of the efficiency of technological processes. Identification of general patterns in the implementation of complex investment and construction projects using information modeling and optimization of organizational and technological solutions.
8. Updating and improving the regulatory framework of the construction industry - in the field of design, construction, operation and reconstruction, demolition and disposal of construction sites.
9. Research into the efficiency of using machines, equipment, installations, tools, vehicles, information modeling technologies, automation systems in construction and its production base;

justification of their technological capabilities and areas of rational application; justification of the optimal machine park and organizational forms of management.

10. Impact of technological processes on the environment.

4. REQUIREMENTS FOR APPLICANTS APPLYING TO THE PHD PROGRAMME

Persons with at least a higher education (specialist or master's degree) are allowed to master the programs for the training of scientific and pedagogical personnel in graduate school.

Applicants take entrance examinations on:

- a special discipline corresponding to the direction of training of scientific and pedagogical personnel in the postgraduate study of the subgroup "Construction", the group of scientific specialties "Construction and architecture", the scientific specialty "Technology and management in construction".

Entrance examinations are conducted in writing (special discipline).

To master the postgraduate program in the direction of preparation of the subgroup "Construction", the group of scientific specialties "Construction and architecture", the scientific specialty "Technology and management in construction", you must have the following knowledge, skills and abilities:

- knowledge of general theoretical categories and concepts of building science;
- knowledge of the basic concepts and concepts in the scientific specialty "Building designs, buildings and constructions", as well as the main scientific works of scientists and methods for calculating building structures;
- ability to search and apply normative and technical documents; - the ability to write scientific articles;
- the ability to master educational and scientific literature, express their thoughts and participate in the discussion of the identified problems;
- writing skills;
- skills to perform research work;
- the ability to select, study, analyze, discuss monographic and other scientific research.

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
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

Area of professional activity.

- The field of professional activity of graduates who have mastered the postgraduate program includes:
- creation and improvement of rational types of structures, buildings, structures for various purposes and their complexes, as well as the development, improvement and verification of methods for their calculation justification;

- improvement of existing and development of new machines, equipment and technologies necessary for the construction and production of building materials, products and structures;
- improvement and development of new building materials;
- solving scientific problems, tasks in the relevant construction industry, which are of great socio-economic or economic importance;
- updating and improving the regulatory framework of the construction industry - in the field of designing construction projects;
- conducting educational and educational-methodical work in educational institutions of higher education.

Objects of professional activity.

- The objects of professional activity are:
- building structures, buildings, structures and their complexes, including hydrotechnical, environmental structures and transport infrastructure facilities;
- loads and impacts on buildings and structures; building materials and products;
- machines, equipment, technological complexes, automation systems used in construction.

Types of professional activity.

- Types of professional activities for which graduates who have mastered the postgraduate program are preparing:
- research activities in the field of technical sciences and architecture;
- teaching activity on educational programs of higher education.

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.