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**Федеральное государственное автономное образовательное учреждение
высшего образования «Российский университет дружбы народов»**

Медицинский институт

(наименование основного учебного подразделения (ОУП) – разработчика программы)

Утверждена на заседании УС
Медицинского института,
протокол № 4
от «15» декабря 2022 г.

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

Научная специальность:

3.4.1. Промышленная фармация и технология получения лекарств

(код и наименование научной специальности)

Направленность (профиль):

Drug Technology: Biopharmacy

(наименование программы подготовки научных и научно-педагогических кадров)

Программа подготовки научных и научно-педагогических кадров в аспирантуре
разработана в соответствии с требованиями:

СУТ РУДН, утвержденных приказом ректора № 139 от «09» марта 2022 г.

Срок освоения программы подготовки научных и научно-педагогических кадров в
аспирантуре:

3 года

(очная форма обучения)

Сведения об особенностях реализации программы: нет

СОГЛАСОВАНО:

Руководитель программы

Суслица С.Н.

(подпись)

Начальник УОП

Воробьева А.А.

(подпись)

Руководитель ОУП

Абрамов А.Ю.

(подпись)

Начальник УПКВК

Сафир Р.Е.

(подпись)

2023 г.

1. PURPOSE OF THE POSTGRADUATE PROGRAM

The purpose of the postgraduate course is to guide a specialist to the development of an academic career and maximum adaptation in the scientific environment, to solve the problems of building a nationally oriented economy and forming the necessary quality of "human capital".

The result of postgraduate studies is the preparation and defense of a dissertation for the degree of candidate of sciences.

2. BRIEF SUMMARY OF THE PROGRAM

Postgraduate study in a scientific specialty 3.4.1. "Industrial pharmacy and drug technology" includes the development of scientific research methodology, theoretical foundations and experimental research. The scientific work of a postgraduate student is carried out using innovative equipment under the guidance of candidates and doctors of sciences, heads of the practical level of the highest level of enterprises for the production of medicines.

The structure of the postgraduate program includes a mandatory part (basic) and a part formed by participants in educational relations (variable).

The postgraduate program consists of the following blocks:

Block 1. "Disciplines (modules)"

Includes disciplines (modules) related to the basic part of the program, and disciplines (modules) related to its variable part.

Block 2. "Practices"

Refers to the variable part of the program.

Block 3. "Research work" Refers to the variable part of the program.

Block 4. "State final certification"

Refers to the basic part of the program and ends with the qualification "Researcher. Teacher-researcher".

Disciplines (modules) related to the basic part of Block 1 "Disciplines (modules)", including those aimed at preparing for the candidate's examinations, are mandatory for students to master, regardless of the direction of the postgraduate program they are mastering. The set of disciplines (modules) of the variable part of Block 1 "Disciplines (modules)" is determined by the approved curricula in the direction "3.4.1. Industrial Pharmacy and Drug Technology" in the context of profiles in the amount established by the FGT, approved by order of the Ministry of Education and Science of Russia No. 195 dated 20.10.2021. The postgraduate program includes disciplines (modules) aimed at preparing for the candidate's examinations.

Block 2 "Practices" includes practices for obtaining professional skills and professional experience (including teaching practice). Teaching practice is mandatory. Practice methods: stationary; visiting. The practice can be carried out in the structural divisions of RUDN University. For people with disabilities, the choice of places for internships takes into account the state of health and accessibility requirements.

Block 3 "Research work" includes the implementation of research work. The completed research work must meet the criteria established for the scientific qualification work (dissertation) for the degree of candidate of sciences. After the student chooses the direction of the program and the topic of research work, a set of relevant disciplines (modules) and practices should become mandatory for students to master.

Block 4 "State final certification" includes the preparation and passing of the state exam, and the defense of the final qualifying work, performed on the basis of the results of research work. When preparing graduate students, electronic information databases are used; it is possible to apply the modular principle of building disciplines for the preparation of graduate students.

3. THE NEED OF THE LABOR MARKET FOR GRADUATES WHO HAVE COMPLETED THE POSTGRADUATE PROGRAM

The benefits of obtaining a degree in this area for career development is the conduct of research and educational activities in the field of pharmaceutical development.

4. REQUIREMENTS FOR APPLICANTS APPLYING TO THE PROGRAM

An applicant for admission to graduate school must have a diploma in Pharmacy or Master of Pharmacy, as well as in related fields.

On the exam, applicants for graduate school must demonstrate:

- demonstrate knowledge of the basic laws in the field of pharmaceutical technology;
- demonstrate possession of professional knowledge and terminology in the field of pharmaceutical technology;
- be able to solve technological problems;
- be able to explain in an understandable form, consistently and consistently, and state in writing the course of their reasoning when answering questions in the field of pharmaceutical technology.
- show knowledge of modern theoretical and experimental research on the creation of new promising drugs;
- demonstrate knowledge of technological processes in the production and manufacture of medicines, taking into account the biopharmaceutical concept;

The procedure for conducting an entrance test

The exam is held in writing. You have 60 minutes to complete the exam paper.

The examination ticket contains 4 questions, each task is estimated at 25 points. Thus, for the correct execution of all tasks of the work, you can get a maximum of 100 points.

5. STRUCTURE AND SCOPE OF THE PROGRAM FOR TRAINING SCIENTIFIC AND SCIENTIFIC-PEDAGOGICAL PERSONNEL IN POSTGRADUATE STUDIES

The structure and volume of the postgraduate program - the period of development is 3 years in full-time.

No.	Structure of the Postgraduate Program	The scope of the PhD program in z.e.
1. Scientific component		150
1.1.	Scientific activity aimed at preparing a dissertation for defense	126
1.2.	Preparation of publications and (or) applications for patents for inventions, utility models, industrial designs, selection achievements, certificates of state registration of programs for electronic computers, databases, topologies of integrated circuits provided for in paragraph four of clause 5 of federal state requirements	18
1.3.	Intermediate certification by stages of scientific research	6
2. Educational component		30
2.1.	Disciplines (modules)	13
2.2.	Practices, including teaching practice	5
2.3.	Intermediate certification in disciplines (modules) and practice, including pedagogical	6
3. Final certification		6
Scope of the Postgraduate Program		180

6. CHARACTERISTICS OF THE PROFESSIONAL ACTIVITY OF A GRADUATE

Field of professional activity of graduates who have mastered the postgraduate program includes scientific research in pharmacy aimed at the development and creation of innovative medicines (drugs).

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

Innovative drugs - development and production. Pharmaceutical design. Processes of processing raw materials and isolation of biologically active substances.

Generic drugs - production and assessment of bioequivalence based on pharmacokinetic studies.

Modern international standards for the organization of pharmaceutical

activities based on the requirements of GLP, GMP, GCP, GPP.

Pharmaceutical enterprises, pharmacies, educational, research organizations specializing in the field of screening, development, manufacturing, research, including those based on medicinal plant materials.

Types of professional activity

Types of professional activity for which graduates who have mastered the postgraduate program in the scientific specialty "3.4.1. Industrial Pharmacy and Drug Technology":

- development of new drugs (KKSA/QSAR method), production of finished dosage forms in accordance with international standards (GMP);
- study of the composition and biological (therapeutic) activity of the components of medicinal raw materials of plant and animal origin
- drug technologies;
- teaching activities in educational programs of higher education in the field of drug technology;

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

Tasks of professional activity

- organizational and managerial activity
- control and permitting activity
- information and analytical activities.

7. LOCATION OF THE STUDY PROGRAM

7.1. The postgraduate program is implemented by the Russian University of Peoples' Friendship.

Information about partner organizations involved in the implementation of the PhD program (*educational and scientific organizations, manufacturing enterprises, etc.*)

7.2. Information about the planned bases for conducting practices and (or) performing scientific research

Practice and research*	Practice base
Pedagogical practice (stationary)	RUDN University, Moscow
Scientific research (stationary)	RUDN University, Moscow

* - the type of practice is indicated - its name (pedagogical, technological, etc.), method of conducting (stationary / visiting), or scientific research.

8. FEATURES OF THE IMPLEMENTATION OF THE POSTGRADUATE PROGRAM

8.1. The postgraduate program is implemented with elements of e-learning of distance learning technologies (Teams, Telecommunication Educational Information System (TEIS)).

8.2. The language of implementation of the PhD program is Russian/English.

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