



# SUMMARY REPORT

on international public accreditation of the cluster of the  
educational programmes in

«Biology» (06.03.01, 06.04.01)

delivered by Belgorod State University

While preparing this Summary Report we used information from the Self-Evaluation Report and the Report on the External Review of the cluster of educational programmes in «Biology» (06.03.01, 06.04.01) delivered by Belgorod State University.

The presentation document for the use by the National Accreditation Board.

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## GENERAL INFORMATION ON EDUCATIONAL INSTITUTION

Full name of the educational institution	<i>Federal State Autonomous Educational Institution of Higher Education «Belgorod State National Research University»</i>
Founders	<i>Ministry of Education and Science of the Russian Federation</i>
Year of foundation	<i>1876 — Teacher's Training Institute 1919 — Belgorod Pedagogical Institute 1920 — Belgorod Institute of Public Education 1922 — Belgorod Practical Institute of Public Education 1939 — Belgorod State Teacher's Training Institute 1954 — State Pedagogical Institute 1957 — Belgorod State Pedagogical Institute 1967 — Olminskii Belgorod State Pedagogical Institute 1994 — Olminskii Belgorod State Pedagogical University 2002 — State Educational Institution of Higher Professional Education «Belgorod State University» 2005 — State Educational Institution of Higher Professional Education «Belgorod State University» 2011 — Federal State Autonomous Educational Institution of Higher Professional Education «Belgorod State National Research University» («BelSU») 2015 — Federal State Autonomous Educational Institution of Higher Education «Belgorod State National Research University»</i>
Location	<i>85, Pobedy Str., Belgorod, 308015, Russia</i>
Rector	<i>Oleg Polukhin, Doctor of Political Sciences, Professor</i>
License	<i>Series 90Л01 №9198 reg. № 2159 of 26.05.2016 permanent</i>
State accreditation	<i>Certificate of State Accreditation Series 90A01 № 2273, reg. №2154 of 01.08.2016 valid till 10.04.2021</i>

Number of students

19743

*including:*

*full-time* 12647

*on-site and off-site* 501

*part-time* 6595

## INFORMATION ON THE EDUCATIONAL PROGRAMMES UNDERGOING ACCREDITATION

Educational programmes	<i>«Biology» (06.03.01) «Biology» (06.04.01)</i>
Level of training / Standard period of training	<i>Bachelor's Degree Programme / 4 years Master's Degree Programme / 2 years</i>
Structural subdivisions (head)	<i>Institute of Pharmacy, Chemistry and Biology (Irina Spichak, Doctor of Pharmaceutical Sciences, Professor)</i>
Major departments (heads of major departments)	<i>Department of Biology (Elena Dumacheva, Doctor of Biological Sciences, Associate Professor) Department of Biotechnology and Microbiology (Irina Batlutskaia, Doctor of Biological Sciences, Associate Professor)</i>
Date of the site visit	<i>December 04-06, 2018</i>
Person responsible for public accreditation of the study programmes	<i>Galina Zabnina, specialist in academic work of the Division of Educational Policy</i>

**SAMPLING RESULTS OF THE PROJECT  
"THE BEST EDUCATIONAL PROGRAMMES OF  
INNOVATIVE RUSSIA"**

Indicators	2018
<b>Cluster of the educational programmes in «Biology» (06.03.01, 06.04.01)</b>	
Number of the given programmes in the RF	249
Number of higher educational institutions to offer the given programmes	136
Number of programmes – winners of the project (% from total number of these programmes offered in the RF)	67 (27%)
<b>Belgorod Region</b>	
Number of the given programmes offered in the region	2
Number of programmes – winners of the project (% from total number of these programmes offered in the region)	1 (50%)
Number of higher educational institutions and branches in the region	15
Total number of programmes offered in the region	286
Total number of programmes – winners of the project (% from total number of these programmes offered in the region)	42 (14,7%)

**REFERENCE DATA ON STUDENT ENROLLEMENT FOR  
EDUCATIONAL PROGRAMMES**



## **ACHIEVEMENTS OF THE EDUCATIONAL PROGRAMMES**

### **Quality of the delivered educational programmes**

The quality of the educational programmes is ensured by highly qualified teachers and their systematic professional development; research activities of the teaching staff and students; wide international ties and international mobility of students and teachers.

The educational programmes fully correspond to the requirements of the Federal State Educational Standards of Higher Education and other regulations. Following the results of state reviews, no violations revealed.

### **Providing up-to-date contents of education**

The content of the educational programmes correspond to the current development level of science, technologies, culture, economy, and social sphere.

The up-to-date content of education is ensured by annual renewal and correction of the educational programmes, curricula and programmes of disciplines.

The University actively cooperates with employers on training of highly qualified personnel.

### **Teaching staff**

Basic education and qualification of the teachers correspond to the requirements.

The teaching staff actively participates in research activities on priority areas of development of science and technologies in the Russian Federation.

### **Independent assessment of knowledge**

Independent assessment of knowledge is ensured by testing of students organized by the Centre of Quality Management.

### **Educational resources**

Training and laboratory facilities provide carrying out of research activities of biological, microbiological, ecological, physiological, molecular genetic and other areas.

The electronic information educational environment «BeISU» corresponds to all the regulations.

### **Research activity**

Over the last 5 years more than 20 students have participated in grant competitions and have won several of them; they have published more than 150 research works in various journals, including those of WoS and Scopus.

Students actively participate in national and international research conferences; they became winners of the International Biological



Universiade (2017), Russian Olympiad in Biology (2016), International tournaments in Natural Sciences.

### Academic mobility of students

Students' mobility is one of the most important areas of international activities of the University.

The following kinds of international student mobility are carried out at the University according to the bilateral agreements signed with partner universities:

- programmes of student exchange in the partner university;
- joint educational programmes delivered by Belgorod State University and the partner university;
- language courses and internships; summer schools.

The percentage of foreign Bachelor students is 18 %, Master students - 19 %.

### Employability of graduates

Graduates are in steady demand on the labour market not only in the Belgorod region, but in other Russian regions. Over the last 5 years employability was 72,7–92,0 %.

### International projects

Overseas trips of teachers in 2014–2018 were connected with improvement of relations with partners, research work, internships, and courses of professional development or training.

## EXTERNAL REVIEW PANEL



**Ulrich Hahn** (Germany)

Review Chair, foreign expert

*PhD, Professor, Emeritus, Hamburg University*

A nominee of the Accreditation Agency EVALAG



**Aleksandr Sukhinin** (Russia)

Deputy Review Chair, Russian expert

*Doctor of Biological Sciences, Professor, First Vice-Rector (Vice-Rector for Educational Work), Saint-Petersburg State Academy of Veterinary Medicine*

A nominee of the Guild of Experts in Higher Education



**Olga Loretts** (Russia)

Panel member, Russian expert

*Doctor of Biological Sciences, Professor, Rector, Ural State Agrarian University, member of the Guild of Experts in Higher Education, federal expert on evaluation of content and quality in state accreditation carried out by the Federal Service for Supervision in Education and Science (Rosobrnadzor), Deputy Chair of the Union of Women from Rural Areas, member of working groups of the Ministry of Agroindustrial Complex and Food of the Sverdlovsk Region*

A nominee of the Guild of Experts in Higher Education



**Cristina Dobrota** (Romania)

Panel member, foreign expert

*Doctor of Biological Sciences, Professor, Director of the Institute of Technologies, Dean of the Faculty of Biology and Geology (2008-2012), Head of the Laboratory of Ecotoxicological Analysis, Babeş-Bolyai University*

A nominee of the Romanian Quality Assurance Agency for Higher Education



**Igor Kuprienko** (Russia)

Panel member, representative of professional community

*Deputy Head of the Department for Environmental Supervision of the Belgorod Region*

A nominee of the Department for Environmental Supervision of the Belgorod Region



**Daria Obraztsova** (Russia)

Panel member, representative of students

*Student, field of study 05.04.06 «Ecology and Management of Natural Resources», Faculty of Agronomy, Gorin Belgorod State Agricultural University*

A nominee of Gorin Belgorod State Agricultural University

## INFORMATION ON THE LEADING TEACHERS OF THE EDUCATIONAL PROGRAMMES

### **Irina Spichak**

*Doctor of Pharmaceutical Sciences, Professor, Director of the Institute of Pharmacy, Chemistry and Biology, corresponding member of the Russian Academy of Natural Sciences*

### **Olga Lebedeva**

*Doctor of Chemical Sciences, Professor, acting Deputy Director for Research and International Activities, acting Head of Faculty of Biology and Chemistry, Professor of the Department of General Chemistry*

### **Elena Dumacheva**

*Doctor of Biological Sciences, Associate Professor, Head of the Department of Biology, supervisor of the Master's degree programme «Biological Resources»*

### **Irina Batlutskaia**

*Doctor of Biological Sciences, Associate Professor, Head of the Department of Biotechnology and Microbiology*

### **Vladimir Zakharov**

*Doctor of Biological Sciences, corresponding member, Professor of the Department of Biology, Head of the Laboratory of Postnatal Ontogenesis of the Koltsov Institute of Developmental Biology*

### **Nikolai Sidelnikov**

*Doctor of Agricultural Sciences, corresponding member, Professor of the Department of Biology, Director of the All-Russian Scientific Research Institute of Medicinal and Aromatic Plants, Russian Academy of Sciences*

### **Aleksandr Prisnyi**

*Doctor of Biological Sciences, Professor of the Department of Biology, supervisor of the programme «Ecology»*

### **Marina Skorkina**

*Doctor of Biological Sciences, Associate Professor, Professor of the Department of Biology, Head of the Department of Biochemistry, Institute of Medicine, expert of the Russian Academy of Sciences*

### **Vladimir Cherniavskikh**

*Doctor of Agricultural Sciences, Professor of the Department of Biology, expert of the Russian Academy of Sciences in Biological Sciences*

### **Valerii Tokhtar**

*Doctor of Agricultural Sciences, Professor of the Department of Biology, Director of the Botanic Garden*

### **Vladimir Netsvetaev**

*Doctor of Biological Sciences, Professor of the Department of Biology*

### **Eduard Segin**

*Doctor of Biological Sciences, Associate Professor, Professor of the Department of Biology, Head of the Research Centre of Genomic Selection*

## **COMPLIANCE OF THE EXTERNAL REVIEW OUTCOMES WITH THE NCPA'S STANDARDS**

### **STANDARD 1. Policy (goals, development strategy) and quality assurance procedures of the educational programme**

Compliance with the standard: **full compliance**

#### **Good practice:**

During the work of the Panel specific facts were defined. They prove the work of the educational institution in accordance with the strategy of priority development of the University that is aimed at improving its competitiveness among other research and educational centres.

Three missions of the University are proved.

Quality control of the educational process is documented and is available on the University web-site.

#### **Areas for improvement:**

It is recommended that a road map with the description of specific ways and stages of implementing the policy of quality assurance should be developed.

It is advisable that stakeholders – main representatives of the labour market – should be involved in the development and introduction of criteria of quality assurance.

### **STANDARD 2. Design and approval of programmes**

Compliance with the standard: **full compliance**

#### **Good practice:**

The requirements of the standard are fully represented in the study programme.

The purposes and objectives of the study programme are available and correlate to the mission and goals of the University.

The study programmes are provided with great material and technical resources: research centres (Research Centre of Genomic Selection, Research Institute of Pharmacology of Living Systems of Belgorod State National Research University, Research Centre «Botanical Garden of Belgorod State University», Laboratory of plant biotechnology of the «Botanical Garden»).

The educational institution cooperates with different subdivisions of employers on practical training; students have an opportunity to do practical training in the University subdivisions.

### **Areas for improvement:**

When organizing the educational process it is necessary to emphasize practical training of students (practice-oriented approach).

It is recommended to hold meetings of employers with students at earlier stages of training (2 year) to orient the educational process at prospective employment.

### **STANDARD 3. Student-centered learning and assessment**

Compliance with the standard: **full compliance**

#### **Good practice:**

Students have an opportunity to form an individual learning path according to an individual curriculum.

Students actively participate in various events (testing of the Research University of Monitoring of Education Quality, International Biological Universiades, tournaments, Olympiads, etc.).

Students can file a complaint or an application on the University website that will be considered by the Administration.

#### **Areas for improvement:**

It is recommended that new (supplementary) subjects (Embryonic Reproduction, the English Language) should be introduced.

It is advisable that the professional community should be involved in evaluation of competencies and practical skills of students.

### **STANDARD 4. Student admission, support of academic achievements and graduation**

Compliance with the standard: **full compliance**

#### **Good practice:**

A systematic career guidance work on organization of the enrollment campaign and formation of the cohort is carried out.

Applicants participate in the fairs of study places; preparatory courses are organized; the Olympiad movement and project activities are in place.

#### **Areas for improvement:**

It is recommended that students should be informed that they can obtain a Diploma Supplement for free.

It is advisable to make the programme of lectures of the English language to improve communication skills of students.

It is necessary to analyze and correct curricula taking into account the best practices of analogous study programmes of leading foreign universities to improve international mobility of students.

## **STANDARD 5. Teaching staff**

Compliance with the standard: **full compliance**

### **Good practice:**

Teachers are highly qualified.

Teachers are involved in research and publication activities.

Advanced technologies are used in the educational process.

A system of financial and non-financial incentives for teachers is in place.

An objective system for promotion and recruitment of the staff is in place.

The University supports and organizes professional training and development of teachers.

Teachers together with the representatives of leading regional enterprises participate in implementation of technological innovative projects.

### **Areas for improvement:**

It is recommended that teachers should be provided with the supplementary courses of a foreign language and communication classes to improve their participation in joint international projects and programmes of academic mobility.

It is advisable to improve publication activities in top-rated journals.

It is necessary to define a clear system of incentives for teachers in the regulatory documents.

## **STANDARD 6. Learning resources and student support**

Compliance with the standard: **full compliance**

### **Good practice:**

Classrooms and laboratories provided with necessary equipment are in place.

Partner enterprises financially support the University to form material and technical resources.

The University is provided with sufficient social infrastructure: campus, sports complex, pharmacy.

A feedback system is based on the monitoring of students' contentment with the educational process.

### **Areas for improvement:**

It is recommended that all students should be provided with the possibility to work with expensive equipment.

It is advisable to increase funding for buying consumable materials.

## **STANDARD 7. Collection, analysis and use of information for managing the educational institution**

Compliance with the standard: **full compliance**

### **Good practice:**

Collection, analysis and use of relevant information is carried out on the basis of the system of electronic document flow, including the system of e-learning «Pegas» on the basis of the academic environment «Moodle» that is designed for automation of training management, providing access to electronic educational content and using electronic educational technologies.

### **Areas for improvement:**

It is recommended that a comparative analysis of achievements of programmes under review with the analogous programmes of leading foreign universities should be carried out more often.

## **STANDARD 8. Public information**

Compliance with the standard: **full compliance**

### **Good practice:**

The following information resources are used: brochures about the University, newspapers, radio, regional TV and other media.

The Public Relations Office and mass media are winners of the competition «University Press Service 2018». The University ranked 2nd in the nomination «Infoleader».

### **Areas for improvement:**

It is recommended that work with graduates having problems with employment should be improved.

It is advisable that information about research areas and the outcomes should be regularly renewed in the English language on the University website.

## **STANDARD 9. On-going monitoring and periodic assessment of the educational programmes**

Compliance with the standard: **full compliance**

### **Good practice:**

Every year the University monitors students' satisfaction in the sphere of professional services for account and updating of information to organize and implement study programmes.

Publications are available in the automated system «InfoBelSU: Educational Process».

Desires of students and employers are taken into account when developing the programmes.

### **Areas for improvement:**

It is recommended that the feedback system of the University with employers should be improved.

It is advisable to enhance and extend relations with agrarian foreign universities in mutual exchange of the best practices of teaching and quality evaluation of the basic study programmes.

## **STANDARD 10. Cyclical external quality assurance of the educational programmes**

Compliance with the standard: **full compliance**

### **Good practice:**

Periodic external review is carried out in accordance with the standards;

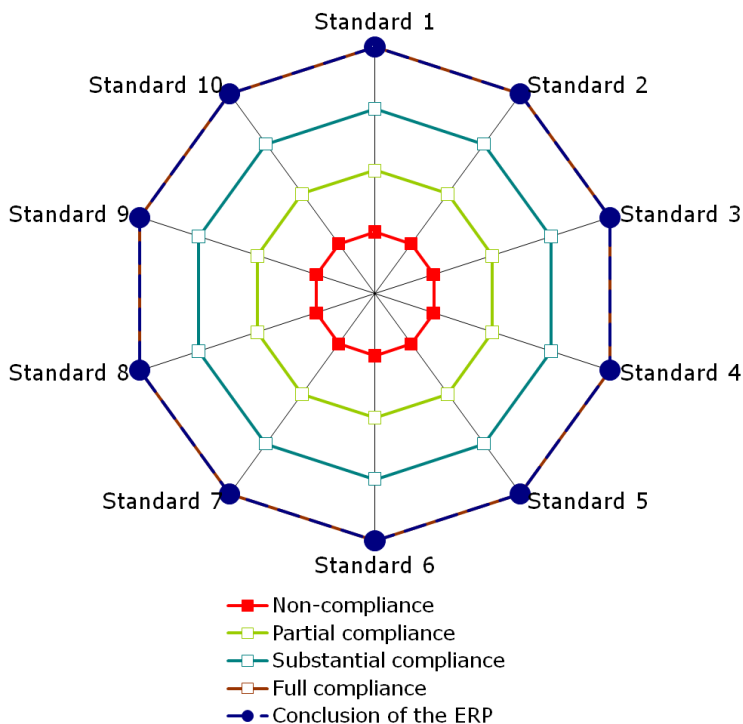
The study programmes of the cluster «Biology» are the winners of the Russian competition «The Best Educational Programmes of Innovative Russia».

### **Areas for improvement:**

All stakeholders should know the procedure of external review of quality assurance of the educational process.



## DISTRIBUTION DIGRAM OF THE EXTERNAL REVIEW OUTCOMES



- Standard 1. Policy (goals, development strategy) and quality assurance procedures of the educational programmes
- Standard 2. Design and approval of programmes
- Standard 3. Student-centered learning, teaching and assessment
- Standard 4. Student admission, support of academic achievements and graduation
- Standard 5. Teaching staff
- Standard 6. Learning resources and student support
- Standard 7. Collection, analysis and use of information for managing the educational institution
- Standard 8. Public information
- Standard 9. On-going monitoring and periodic assessment of the educational programmes
- Standard 10. Cyclical external quality assurance of the educational programmes

## CONCLUSION OF THE EXTERNAL REVIEW PANEL

Based on the self-evaluation report analysis, documents and data submitted the External Review Panel has come to the conclusion that the cluster of the educational programmes in «Biology» (06.03.01, 06.04.01) **fully** complies with the standards and criteria of public accreditation of the National Centre for Public Accreditation.

The Panel recommends that the National Accreditation Board accredit the cluster of the educational programmes in «Biology» (06.03.01, 06.04.01) delivered by Belgorod State University **for the period of 6 years.**

## SCHEDULE OF THE SITE VISIT OF THE EXTERNAL REVIEW PANEL

Time	Activity	Participants	Venue
<b>December 4, Tuesday</b>			
8.45	Arrival at the University		15 Building (training complex 2), 85, Pobedy Str.
09.00 – 11.00	The first meeting of the external review panel		Room 2-22 (15 Building), 85, Pobedy Str.
11.00 – 12.00	<b>Meeting of the ERP with the University administration and people responsible for accreditation</b>	Rector, Vice-Rectors, people responsible for accreditation, ERP	Room 2-22 (15 Building), 85, Pobedy Str.
12.00 – 13.00	Tour of the University (visiting classes, libraries, etc.)	ERP	Museum of History, Research Library, 85, Pobedy Str.
13.00 – 14.00	Lunch		3 <sup>rd</sup> floor, 11 Building, 85, Pobedy Str.
14.00 – 14.30	Internal meeting of the ERP	ERP	Room 6-11 (15 Building), 85, Pobedy Str.
14.30 – 15.30	<b>Meeting with Institute Directors/Deans</b>	Institute Director, Deputy Directors, ERP	Room 3-15 (15 Building), 85, Pobedy Str.
15.30 – 16.30	<b>Meeting with Heads of Departments</b>	ERP, Heads of Departments	Room 3-15 (15 Building), 85, Pobedy Str.
16.30 – 17.00	Thematic Tour	Director, Heads of Departments, ERP	14 Building, 85, Pobedy Str.
17.00 – 17.30	Work with documents	ERP	Room 6-11 (15 Building), 85, Pobedy Str.
17.30 – 18.30	<b>Meeting with graduates</b>	Graduates, ERP	Room 3-15 (15 Building), 85, Pobedy Str.
18.30 – 19.00	Internal meeting of the ERP	ERP	Room 6-11 (15 Building), 85, Pobedy Str.

Time	Activity	Participants	Venue
<b>December 5, Wednesday</b>			
9.45	Arrival at the University		15 Building, 85, Pobedy Str.
10.00 – 11.00	<b>Meeting with teachers</b>	Teachers, ERP	Room 3-15 (15 Building), 85, Pobedy Str.
11.00 – 11.30	Internal meeting of the ERP	ERP	Room 6-11 (15 Building), 85, Pobedy Str.
11.30 – 12.40	<b>Meeting with students</b>	Students, ERP	Room 3-15 (15 Building), 85, Pobedy Str.
12.40 – 13.00	Transfer to the training complex 1		14, Studencheskaia Str.
13.00 – 13.40	Lunch		1 <sup>st</sup> floor, 14, Studencheskaia Str.
13.40 – 14.00	Transfer to the training complex 2		15 Building, 85, Pobedy Str.
14.00 – 14.30	Work with documents	ERP	Room 6-11 (15 Building), 85, Pobedy Str.
14.30 – 14.50	Transfer to another building (Botanical garden)		18, Kasharskii Proezd, Belgorod
14.50 – 16.10	Tour of the University (Botanical garden)	Director, Deputy Directors, Heads of Department, ERP	18, Kasharskii Proezd, Belgorod
16.10 – 16.30	Transfer to another building		15 Building, 85, Pobedy Str.
16.30 – 17.30	<b>Meeting with representatives of professional community</b>	Employers, ERP	Room 3-15 (15 Building), 85, Pobedy Str.
17.30 – 18.00	Internal meeting of the ERP	ERP	Room 6-11 (15 Building), 85, Pobedy Str.
<b>December 6, Thursday</b>			
9.45	Arrival at the University		15 Building, 85, Pobedy Str.
10.00 – 13.00	Internal meeting of the ERP: discussion of preliminary results of the site visit, preparation of the oral report of the panel	ERP	Room 6-11 (15 Building), 85, Pobedy Str.
13.00 – 14.00	<b>Closing meeting of the External Review Panel with the representatives of the University</b>	ERP, University administration, Heads of the Graduate Departments, teachers, students	Room 2-22 (15 Building), 85, Pobedy Str.
14.00 – 15.00	Lunch		3 <sup>rd</sup> floor, 11 Building, 85, Pobedy Str.
15.00	Departure		