



**ANNUAL REPORT OF BIOTECH UNIVERSITY
ON THE IMPLEMENTATION OF THE UN SUSTAINABLE DEVELOPMENT GOALS**

2022-2023

INTRODUCTION

Since 2015, when the United Nations (UN) 2030 Agenda was adopted to realize the 17 Sustainable Development Goals (SDGs) as a global call to action to eradicate poverty, protect the environment, improve the quality of life and improve prospects for future generations, there is a need to promote their implementation at all levels of society.

This obligation also arises for universities both in relation to the external environment and to the university campus, encouraging, first of all, stakeholders (students, employees, teachers and managers) to interact with the surrounding social, environmental, and administrative prevailing conditions.

BIOTECH University builds its scientific, educational and economic activities in accordance with the principles outlined in the University's sustainable development strategy. BIOTECH University implements projects aimed at "greening" the university campus, developing environmental thinking among students and employees of the University and the local community.

Being one of the largest engineering and technical universities in Russia, for which social responsibility is one of the priority goals, BIOTECH University strives to create on the basis of the university an integrated educational, world-class scientific and implementation cluster in the field of biotechnology, bioecology, biomedicine and bioengineering.

Achieving special achievements, BIOTECH University is positioned in international rankings in the field of ecology and sustainable development such as THE Impact Ranking (2021 - place 601-800, 2022 - place 401-600) and UI GreenMetric (2020 - 763 place, 2021 – 422nd place, 2022 – 278th place). In 2022, BIOTECH University for the first time entered the general SCImago Institutions ranking and the SCImago Institutions Subject rankings, among which it took 205th place in the Environmental Sciences subject area.

This report is intended for a wide range of local, national and international audiences in the public, private, non-governmental, political and educational sectors, non-profit organizations, politics and education. We hope it will stimulate further ideas, opportunities for collaboration and partnerships so that together we can play a full part in achieving the Sustainable Development Goals by 2030.

SUSTAINABLE DEVELOPMENT GOALS

1. No Poverty
2. Zero Hunger
3. Good Health and Wellbeing
4. Quality Education
5. Gender Equality
6. Clean Water and Sanitation
7. Affordable and Clean Energy
8. Decent Work and Economic Growth
9. Industry, Innovation and Infrastructure
10. Reduced Inequalities
11. Sustainable Cities and Communities
12. Responsible Consumption and production
13. Climate Action
14. Life Below Water
15. Life On Land
16. Peace, Justice and Strong Institutions
17. Partnership for the Goals

SDG 1: NO POVERTY



DORMITORY

The BIOTECH University campus includes **6 dormitory buildings** located on two sites:

- **Campus NORTH**, Sokol metro station
 1. Dormitory No. 1 - corridor type (address 18 Panfilova St., bld. 1)
 2. Dormitory No. 2 - corridor type (address 18 Panfilova St., bld. 2)
 3. Dormitory No. 3 - corridor type (address 18 Panfilova St., bld. 3)
 4. Dormitory No. 4 - block type (address 16 Panfilova St.)
- **Campus EAST**, Volgogradsky prospekt metro station
 5. Dormitory No. 5 - block type (address Polbina St., 35, bld. 1)
 6. Dormitory No. 6 - block type (address Polbina St., 35, bld. 2)

Dormitory accommodation is provided for non-resident and international students and employees of BIOTECH University.

All dormitories are equipped with a modern video surveillance system, security and automatic fire alarm systems, there is access to the Internet via Wi-Fi.

All living rooms are provided with furniture and social amenities necessary for students' accommodation. There is a common kitchen on each floor.

MATERIAL SUPPORT

STUDENTS

1. Preferential travel on public transportation
2. Contests of youth initiatives
3. Social benefits
4. The University pays scholarships and other types of material support:
 - State Academic Scholarship (HE)
 - State social scholarship (HE)
 - Academic scholarship for residents
 - State scholarship for postgraduate students studying under educational programs of higher education
 - Increased state academic scholarship
 - State social scholarship in an increased amount
 - Material assistance
 - Subsidy for severely needy students
 - Name scholarships of the Moscow City Government

EMPLOYEES

1. Effective employment contract
2. Bonuses, vacation pay, sick pay
3. Compensation and incentive payments
4. Pregnancy allowances, lump-sum payments at birth/childcare

SDG 2: ZERO HUNGER

TRAINING PROGRAMS

At BIOTECH University, curricula address multiple topics related to minimizing hunger, good nutrition, mindful consumption, and environmental sustainability at all levels of higher education:

- Food products from vegetable raw materials
- Food of animal origin
- Food and agricultural biotechnology
- Technology of food ingredients and biologically active additives
- Bread, pastry and pasta technology
- Milk, probiotic dairy products and cheese technology
- Quality management of food production and agro-industrial enterprises
- Standardization and conformity assessment in the food industry
- Bio-ingredients, food, dietary supplements and integration into personalized and specialty nutrition products
- High-tech production of new generation meat and dairy products for effective health saving
- Technology of functional and specialized products
- Management of sustainable development of the organization

CATERING

There are 5 food outlets for BIOTECH University **students and employees**:

NORTH Campus

1. Dining room in the main building on Volokolamskoe highway, 11
2. The Faculty Gastromarket
3. Jeffrey's Coffee
4. Café-dining room in the building of the hostel, 16 Panfilova str. Panfilova street, 16

EAST Campus

5. Dining room in the building at 33 Talalikhina St.

Also, **for residents of the city** provided a separate autonomous access to food outlets, the mode of operation of which operates in the standard format for catering establishments.

STRUCTURAL UNITS

The **Russian Institute of Social Nutrition** was established jointly with the ANO "Institute of Sectoral Nutrition" for a comprehensive analysis of school nutrition issues and applied training for specialists of educational authorities at the municipal and regional levels.

In January 2023, the Russian Institute of Social Nutrition held a professional development course for heads of educational organizations and catering companies: **"Organization of school meals and ensuring sustainability and balance of the diet in the conditions of economic sanctions. School Nutrition Standard"**.

MEASUREMENTS

- S. Uglov, Director of the Russian Institute of Social Nutrition, and D. Bystrov, Director of the School Nutrition Monitoring Center. Yu. and Director of the "School Nutrition Monitoring Center" Bystrov
D. I. took part in the **strategic session "School Nutrition: Time for Change. Forming a new social industry"** within the framework of the 25th international exhibition of hospitality industry "PIR Expo 2022"
- Rector M. G. Balykhin took part in a TASS press conference on **World Food Day** devoted to current issues of **food security and the problem of hunger and malnutrition in 2022**.
- BIOTECH University hosted an open round table **"Food Systems of the XXI Century"** with participation of the Director of the Moscow Office of the Food and Agriculture Organization of the United Nations (FAO) Kobyakov O. Yu. IO.
- at the meeting of the Council on the priority direction of scientific and technological development of the Russian Federation, Vice-Rector Shutenko V. V. made a report on the completed research **"Russian market of food ingredients (proteins, vitamins, amino acids and others) in the conditions of changed market relations"**. Identification of the list of the most critical ingredients from the point of view of import substitution. Possible points of growth taking into account physiological consumption norms and production capabilities"
- The International Scientific and Practical Conference **"Prospective technologies of grain-based food products: functionality, safety, quality"** was held in BIOTECH University. 148 representatives of universities, research institutes, enterprises, holdings, companies from Russia, near and far abroad: Belarus, Uzbekistan, Lebanon participated in the conference in a mixed format
- BIOTECH University representatives at the meeting with the Director of the UN FAO Office Kobyakov O. Yu. Y. discussed the preparation of the **Memorandum between the Food and Agriculture Organization of the United Nations (UN FAO) and the Russian Biotechnology University (BIOTECH University) and participation in the network consortium "Russian-African Federal University" (RAFU)**.
- Institute of Food Systems and Health-Saving Technologies BIOTECH University took part in the forum **"Biotechnology in Russia and the World: Modern Challenges and Promising Development Trends"**, which is timed to coincide with the 300th anniversary of the Russian Academy of Sciences.
- BIOTECH University hosted the **II International Scientific and Practical Conference "Prospective technologies of grain-based food products: functionality, safety, quality. Food supply to the population of the Russian Arctic"**

COOPERATION

- at the international specialized exhibition of bakery and confectionery markets - **MODERN BAKERY MOSCOW | CONFEX 2023** business meetings were held with: representatives of JSC "Shebekinsky Machine-Building Plant", where issues of general cooperation, supply of equipment for training and target programs were discussed; JSC "Inzhir" discussed issues of

The **Chromatography and Molecular Analysis Training and Laboratory Center** was established at BIOTECH University in cooperation with **Interlab**. The Center is involved in training bachelors, masters, postgraduate and doctoral students in the field of food and biotechnology of food products and biologically active substances; in the development and implementation of additional professional education programs; and in conducting scientific research.

INDUSTRIAL PARTNERS

- ITEB RAS
- Agama Istra LLC
- Agama Royal Greenland Ltd.
- Innovation Center Biryuch - New Technologies LLC
- LLC TPK Biofood
- LLC "Plant Svyatoy spring"
- ProfSnab Ltd.
- Mechta Ltd.
- NewBio Ltd.
- ProfSnab Ltd.

engineering and technologies in the food industry at Talalikhin site; LLC "Rusimex" on the progress of further cooperation.

- as part of the Priority 2030 strategic leadership programs, BIOTECH University together with its business partner, **Malino Group of Companies**, launched a small-scale production of freeze-dried products. One of the enterprises of Malino Group of Companies - Severka JSC - became the base for the project realization
- During the meeting with Ralph Rolando, President of the **Association of African Countries under the Ministry of Agriculture of the Republic of Madagascar**. issues of **food security of the Republic of Madagascar** were discussed, the **importance of strengthening Russian-African relations were emphasized, and possible** ways of BIOTECH University participation in the food industry of Madagascar **were analyzed**.
- Within the framework of the **International Food Exhibition "PRODEXPO"** the Gold Medal in the nomination **"Innovative Product"** was awarded to S. Belkin, Director of the experimental and production center of biological extracts BIOTECH University. E. for the development of low-carbonated drink **Latebex with amaranth**
- BIOTECH University together with the **Moscow State University of Sport and Tourism** within the framework of import substitution started to create a **sports nutrition ration** with the use of special functional food products

SCIENTIFIC RESEARCH

BIOTECH University has **2 professional journals** in operation:

1. International scientific peer-reviewed journal **"Storage and Processing of Agricultural Raw Materials"** (HIPS) <https://www.spfp-mgupp.ru/jour/index>;
2. International scientific peer-reviewed online journal Health, Food and Biotechnology (HFB) <http://hfb-mgupp.com/>

BIOTECH University Professor G. V. Semenov received the Government Prize in the field of science and technology, under whose leadership BIOTECH University employees performed the work: **"Creation and implementation of highly effective technologies and equipment for processing and storage of agricultural raw materials, control and quality management systems for food products, ensuring the health of the nation, import substitution and food security of Russia"**.

In food and biotechnology, 6 invention patents in 2022 and 16 invention patents in 2023:

1. Method for obtaining wheat-triticale-amaranth flour" (Kandrokov R.H., Terentyev S.E.)
2. Method for obtaining triticale-amaranth flour" (Kandrokov R.H., Terentyev S.E.)
3. Method of production of cheese with grapes (Sidorova E.S., Morozova V.V.)
4. Method for obtaining wheat-triticale-rye rye flour (Kandrokov R.H., Terentyev S.E.)
5. Method of production of gluten-free bakery products (Belyavskaya I.G., Bogatyreva T.G., Selyukov I.V., Dobysh M.V.)
6. Method of obtaining spelt flour (Kandrokov R.Kh.)



7. Method of obtaining high-protein flour from narrow-leaved lupine seeds (Kandrokov R.Kh.)
8. Method for obtaining buckwheat flour using infrared treatment (V.V. Kirdyashkin, R.H. Kandrokov, D.S. Bakhtina, A.A. Andreeva).
9. Method for obtaining bean groats with reduced content of oligosaccharides (Bakhtina D.S., Kirdyashkin V.V., Kandrokov R.H., Andreeva A.A.).
10. Method of obtaining a beverage on a grain base for functional purpose (Bakumenko O.E., Ionova K.S., Shcherba I.V.)
11. Method for obtaining dessert mousse (Molchanova E.N., Shchegoleva I.D., Arnautova Y.D.).
12. Method and device for Fourier analysis of liquid light-transmitting media (A.N. Drokhanov, V.G. Blagoveshchensky, A.E. Krasnov, E.A. Nazoikin).
13. Vortex dryer (Akulich A.V., Balykhin M.G., Akulich V.M., Shchetinin M.P., Strelukhina A.N.)
14. Method of obtaining flour for pasta from triticale grain (Kandrokov R.H.).
15. Method for obtaining semolina from soft wheat grain (Kandrokov R.H.).
16. Method of soybean meal processing (Kandrokov R.Kh., Logunova N.Yu.
17. Method for obtaining chickpea flour (Kandrokov R.Kh., Logunova N.Yu.)
18. Device for food systems safety (Kuznetsov A.L., Sattarov I.V., Gasenko M.A., Sukhanova N.V., Suvorov O.A.)
19. Method of production of rye-wheat bread on spelt sourdough (Bogatyreva T.G., Belyavskaya I.G., Okolelov M.S.)
20. Device to ensure the safety of catering products (Kuznetsov A.L., Bykov A.V., Shipareva M.G., Suvorov O.A., Zobo Georges Romain)
21. Method for obtaining triticale-rye flour (Kandrokov R.H., Terentyev S.E.)
22. Dry mixture of ingredients for preparation of the drink (Bakumenko O.E., Kandrokov R.H.)

SDG 3: GOOD HEALTH AND WELLBEING

TRAINING PROGRAMS

The departments of the **Medical Institute of Continuing Education (MICE)**, in accordance with the licenses for educational activities, provide educational services:

- higher education in residency programs - in 42 specialties;
- professional retraining programs - in 57 areas;
- on advanced training programs - in 61 areas;
- on advanced training programs for specialists with secondary medical education - in 32 areas.

STRUCTURAL UNITS

The Medical Institute of Continuing Education was established in March 2011. Clinical and research bases of the Institute's departments are specialized bed and outpatient departments, laboratories, treatment and diagnostic units of hospitals of the Ministry of Defense of the Russian Federation, Ministry of Internal Affairs of the Russian Federation: N.N. Burdenko FGCU, P.A. Herzen Moscow Research Oncology Institute of the Ministry of Health of the Russian Federation, the Main Clinical Hospital of the Ministry of Internal Affairs, the Main Clinical Hospital of the National Guard (Rechtsen). The main clinical hospital of the Ministry of Health of the Russian Federation, the Main Clinical Hospital of the Ministry of Internal Affairs, the Main Clinical Hospital of the National Guard (Reutov), Bauman State Clinical Hospital No. 29 of the Moscow Department of Health and others.

The psychological service provides free psychological assistance, including via hotline and Telegram channel, e-mail. In the psychological office of BIOTECH University, you can get expert advice, psychological help and support in resolving difficult issues and complex life situations, assistance in personal growth, development and self-realization.

Psychological and pedagogical support of students with disabilities is carried out for students who have problems in learning, communication, social adaptation and is aimed at the study, development and correction of the personality of a disabled student and a person with disabilities, its professional development through psychodiagnostic procedures, psychoprophylaxis, correction of personal achievements.

The Department of "Physical Education and Sport" conducts classes in the disciplines of "Physical Education and Sport" and "Elective Discipline in Physical Education and Sport".

There are also **programs of adaptive disciplines in physical education and sports** (for disabled people or persons with disabilities). Groups for physical education and sports for the disabled and persons with disabilities are formed depending on the types of health limitations of students. The disciplines include hours devoted to the maintenance of health and healthy lifestyle, health saving technologies, including taking into account the health limitations of students.

The sports complex in BIOTECH University has four gyms, three outdoor sports grounds, sports sections: basketball, volleyball, table tennis, aerobics, soccer, powerlifting, athletics, boxing, swimming,

MEASUREMENTS

BIOTECH University management and students took part in the opening of the educational project of psychological support "On Communication"

- BIOTECH University students took part in the All-Russian educational forum "Generation ZOZH", which was held within the framework of the federal project "Strengthening Public Health".
- with the support of the project "Your Move" and the Institute "Valley of Innovations" held a lecture "Emotional Intelligence", where students learned how to manage their emotions
- with the active support of the Union of Food Ingredients Manufacturers, the IV National Scientific and Practical Conference "Food Ingredients and Biologically Active Additives in Food and Perfumery and Cosmetics Technologies" was held on the basis of BIOTECH University
- Together with the Office of the Russian Presidential Ombudsman for Children's Rights, the BIOTECH University Institute of Biotechnology and Global Health organized and held a series of webinars on school nutrition and prevention of eating disorders in adolescents as part of the Federal Lecture Series, which were conducted by leading experts in the field of school nutrition, pediatricians, psychotherapists, and psychologists.
- employees of the Medical Institute of Continuing Education took part in the VIII International Congress "Sanatorium-resort treatment".
- employees of the Medical Institute of Continuing Education made presentations at the National Surgical Congress-2022 and the XIV Congress of Surgeons of Russia
- BIOTECH University hosted a consultative workshop on "Theoretical and practical aspects of developing Risk Management Plans: GVP 2.0" to discuss the issues of ensuring safe and effective treatment of patients and maintaining a positive benefit-risk ratio for medicines.
- Together with the Office of the Russian Presidential Ombudsman for Children's Rights, the Institute of Biotechnology and Global Health organized and conducted a series of webinars on school nutrition and the prevention of eating disorders in adolescents as part of the Federal Lecture Series. The webinars were conducted by leading experts in the field of school nutrition, pediatricians, psychotherapists, and psychologists

COOPERATION

- BIOTECH University signed a cooperation agreement with **the Moscow State University of Sport and Tourism**. As part of the cooperation, employees of the Institute of Biotechnology and Global Health organized and conducted a **training seminar on nutritionology**, which was held as part of the analytical session on the competence "Physical Culture, Sports and Fitness" of the "Young Professionals" competition
- for students and employees of BIOTECH University the network of new sports studios REBOOT CENTRAL offers favorable passes for fitness classes

SCIENTIFIC RESEARCH

BIOTECH University has **2 professional journals** in operation:

- International scientific peer-reviewed journal "**Storage and Processing of Agricultural Raw Materials**" (HIPS) <https://www.spfp-mgupp.ru/jour/index>

canoeing. Open trainings, competitions and various sports sections are held on the territory of the sports complex.

Sports and mass activities at BIOTECH University are developed in the following areas:

- participation of university teams in the Moscow Student Games
- student participation in mass competitions
- organizing BIOTECH University student games among the University teams
- organization of BIOTECH University Spartakiade "Sports Olympus" in 8 sports (about 400 students were involved, including 30 students with disabilities)
- participation in the XXXIV Moscow Student Games-2022
- organization of tournaments in various sports among university students
- organization of interUniversity competitions

VOLUNTEERING

- BIOTECH University hosted a **student anti-nicotine action "Candy instead of cigarettes"**, which was timed to coincide with World No Tobacco Day
- On **Donor Day**, more than 100 BIOTECH University students, teachers and employees took part in a donor campaign of patriotism and charity

International scientific peer-reviewed online journal **Health, Food and Biotechnology** (HFB) <http://hfb-mgupp.com/>

"Bulletin of the Medical Institute of Continuing Education" is a platform where original research papers, reviews, practical recommendations, unique and didactic clinical cases dedicated to health care and food safety issues relevant both in Russia and abroad can be published.

The periodicity of the journal is 4 times a year, circulation - 30,000 copies. The journal is open access and is included in the system of the Russian Science Citation Index (RSCI) on the platform Elibrary.ru.

The Department of "Physical Education and Sport" annually holds scientific student conferences on the problems of health-improving sports activities. The main scientific direction of the department is **"Monitoring of physical fitness of students"**.

SDG 4. QUALITY EDUCATION

TRAINING PROGRAMS

In 2022, the range of **Individualized Educational Trajectories (IETs)** was expanded to 17 modules. The following modules were introduced for the first time:

- "Food systems chemistry: foundations for sustainable food technologies";
- "Bioengineering and Systems Biotechnology";
- "Nutriciology";
- "Physical and mathematical disciplines for the food industry";
- "Technology of aquatic biological resources and aquaculture objects".

In 2022, BIOTECH University successfully passed **professional and public accreditation** in the **Union of Employers "All-Russian Agro-Industrial Association of Employers "Agro-Industrial Union of Russia"**:

- 19.03.01, 19.04.01 "Biotechnology";
- 19.03.02, 19.04.02 "Food products from vegetable raw materials";
- 19.03.03, 19.04.03 "Food of animal origin";
- 19.04.05 "High-tech production of food products of functional and specialized purpose";
- 36.03.01, 36.04.01 "Veterinary and sanitary expertise";
- 36.05.01 "Veterinary medicine".

In 2022 BIOTECH University led the design of the new **FutureSkills competence "Agricultural Biotechnology"**. The main professional educational programs were updated for the **competences "Composites Technology" and "Industrial Design"** within the framework of Future Skills:

18.03.01 "Chemical technology"; "Technology of printing and packaging production".

BIOTECH University won 2 projects under the **Accelerator Program to support project teams and student initiatives for the formation of innovative products in the market areas of Foodnet and Sportsnet of the National Technology Initiative and the University Startup Studio.**

To stimulate new creative and commercial endeavors, BIOTECH University develops tools to support entrepreneurial activity among young people. One of such tools is **the Startup as a Diploma program**, which is being implemented for the third year:

- **2020** - 12 startup projects, 26 students: 10 patented developments, 3 projects commissioned by companies, 16 students at the defense received job offers;
- **2021** - 68 startup projects, 190 students: 16 projects were executed by orders of companies, 31 companies were established, 12 patents were obtained, 11 projects received investment financing;
- **2022** - 81 startup projects, 236 students: 3 projects selected to the accelerator program "Archipelago-2022"; 31 projects selected to participate in the competition of the innovation promotion fund.

MEASUREMENTS

- Rector of BIOTECH University took part in the **X Annual Forum of Leading Universities "The Future of Higher Education"** in the section "InterUniversity Cooperation: from Competition to Cooperation" with a report on **"Joint Use of Research Infrastructure"**.
- BIOTECH University presented the advanced scientific school (ASP) "Engineering bases of sustainable AgroBioTechnologies of high conversion", which aims to ensure food sovereignty of the Russian Federation by creating a new industry of dual-purpose bio-products with programmable properties.
- The Ministry of Education and Science of Russia held an annual selection of participants of the basic part of the grant of the state program of support of universities "Priority 2030", where BIOTECH University was recognized as a **participant of the program "Priority 2030"**
- within the framework of the Rosmolodezh project, BIOTECH University hosted the **Time of New Opportunities** festival (Republics of Tatarstan, Omsk and Orenburg regions), where prize-winners, winners and participants of the All-Russian Big Break competition immersed themselves in student life for one day
- BIOTECH University hosted an open meeting **"Introduction to the Children's Technopark "Superfood Technologies"** within the framework of the joint activities of the project "Children's Technoparks of Moscow".
- Within the framework of the in-person stage of the **I City Festival of Pedagogical Excellence "Long-Range Profession - 2023"**, a seminar **"Professional Project as a Systemic Element of Administrative Activity in Education"** for Moscow teachers was held at the BIOTECH University site.
- M.I. Gubanova, Associate Professor of the Department of Industrial Design, Packaging Technology and Expertise, took part in the strategic session "Future Skills University: New Realities" at the State University of Aerospace Instrumentation (GUAP)
- Mr. A. B. Chernyshov, Chairman of the Board of Trustees of BIOTECH University, spoke at the **XI Annual Forum of Leading Universities "The Future of Higher Education"**.
- The Russian Biotechnology University hosted an international scientific-practical conference organized by the Department of Physics and Mathematics **"Actual problems of teaching disciplines in technical universities"**, which was attended by representatives of Russian and foreign educational organizations, such as Lomonosov Moscow State University, Bauman Moscow State Technical University, MAI, RGSU and others.
- BIOTECH University hosted the **V International Scientific and Practical Conference "Interactivity as a catalyst for the development of universities"**, which discussed a wide range of problems of creating and using an interactive environment that promotes the organization of conditions for dialogue as a form of cognition, as well as the search for the most effective methods of interaction in the modern educational space.

STRUCTURAL UNITS

The main structures of BIOTECH University that ensure the organization of educational activities:

- International Technological College of the BIOTECH University
- Institute of Food Systems and Health-Saving Technologies
- Institute of Biotechnology and Global Health
- I.A. Rogov Institute of Applied Biotechnology, Academician of the Russian Academy of Sciences
- Institute of Industrial Engineering, Information Technology and Mechatronics
- Institute of Veterinary Medicine, Veterinary and Sanitary Expertise and Agrosafety
- International Institute of Management and Business
- Institute of International Education
- Medical Institute for Continuing Education.
- Pre-University training center
- Engineering Center for Further Education BIOTECH UNIVERSITY
- Multifunctional center "United Dean's Office"
- Institute for Social Projects and Digital Technologies
- Russian Institute of Social Nutrition (RISN)

On June 22, 2023 BIOTECH University reorganized the university by joining FSBEI HE "Pushchino State Natural Science Institute" as a separate structural unit - "**Pushchino Branch**", which includes **scientific faculties**:

- Department of Microbiology and Biotechnology
- Department of Biological Safety
- Department of Cell Biology
- Department of Biomedical Engineering
- Faculty of BioMedPharmTechnology
- Faculty of Biophysics and Biomedicine
- Department of Astrophysics and Radio Astronomy
- Faculty of Digital Technologies

The Library and Information Center was modernized in 2022. The reading room has traditional documents, but the main part is occupied by electronic resources. BIOTECH University provides students with access to **electronic library systems "Lan", "Znanium", "Yurait", "Russian Language"**. Today the space of the reading room includes:

- a self-service area where users can search for documents on their own
- the "intellectual recreation" area
- meeting room
- space for researchers - a graduate student lounge.

In 2022, laboratories and centers equipped with modern innovative equipment were opened together with business partners:

- Training and production complex "Grain, flour, baking";
- Chromatography and Molecular Analysis Training Center;
- Additive Technology Center (3D farm).

COOPERATION

- BIOTECH University Rector and the Rector of **South Ossetian State University** signed a cooperation agreement at the meeting, where the issues of network cooperation in TVET, exchange in the framework of postgraduate studies, scientific internships for University employees, and continuing education programs were discussed.
- **Skillbox** and BIOTECH University management **had** a working meeting on the following issues: creation of a joint digital department, implementation of a hybrid online/offline bachelor's and master's degree, development of online preparatory courses, creation of a joint center at the Children's Technopark and many others.
- A.A. Nenakhova, General Director of **Uralchem Innovation LLC**, met with the Russian Biotechnology University to discuss the prospects of cooperation between BIOTECH University, Pushchino and Uralchem Innovation in the area of target enrollment, scientific development, especially in the creation of functional food products based on pea protein isolate. Special attention was paid to the topic of student startups, the possibility of their joint support and realization in Pushchino science city
- BIOTECH University hosted a meeting with representatives of **AO Ostankinsky Meat Processing Plant** on cooperation, interaction and implementation of dual training system.
- A delegation from the **Ivanovo State Agricultural Academy named after D.K. Belyaev** visited the Russian Biotechnological University and got acquainted with the laboratories and innovation centers of the Children's Technopark.
- at a meeting with the **Moscow State University of Sport and Tourism**, proposals were considered for BIOTECH University entry into the educational cluster for personnel training: sport-supporting infrastructure (tourism-catering-hospitality) using the possibility of partnership programs.
- at a meeting with a delegation from the largest University in the South of Russia, **Don State Technical University**, discussed the development of cooperation on the implementation of the most important strategic projects
- BIOTECH University meeting with the Deputy Governor of the Vladimir Region, V.A. Kuimov, and with the President of the Russian Union of Bakers, A.V. Lyalin, was aimed at discussing the launch of a social and educational project for orphanage graduates, which will include the development of the program in the Vladimir Region and its further replication together with the Commonwealth of Orphanage Graduates "Children of the Whole Country".
- A cooperation agreement was signed between the Russian Biotechnological University and the **Belarusian State College of Building Materials Industry**, within the framework of which the issues of admission of college graduates, network education, joint educational and scientific activities were considered.

INTERNATIONAL ACTIVITIES

In 2022 the **geography expanded (80 countries)** and the **number of foreign students (408 people)** studying at the preparatory department, bachelor, specialist, master, postgraduate and residency

programs increased. **10 new agreements were concluded with foreign educational organizations** from Kazakhstan, Belarus, Zambia, Zimbabwe, as well as from the Luhansk People's Republic, South Ossetia.

In the 2022-2023 academic year, BIOTECH University hosted many **events for international students**, including:

- **"Summer University"** for students from CIS countries;
- **"Russia-Africa Summer Multidisciplinary University"**, which was attended by graduates of Russian universities from the Republic of Zambia, the Federal Democratic Republic of Ethiopia and the Democratic Republic of Congo;
- **"Summer University-2022" "FoodBIOTech directions of the future"**, more than 70 students from the DNR, LNR, Uzbekistan, Kazakhstan, Tajikistan and Belarus underwent **educational tracks on new in-demand professions**;
- specialists from African countries took a **course in Business Russian** and an **industry-specific educational program - "Application of VR/AR-technologies in solving professional tasks"**;
- an **international distance Olympiad** organized by the Department of **"Russian as a Foreign Language"** was held, in which students from near and far abroad took part;
- educational events were held as part of the project: **"Discovering Russia: from Moscow to the outskirts on an interactive flying carpet"** to familiarize foreign citizens with the culture of Russia and its regions;
- **International Forum "Russian Language in the School Education System: Challenges and Growth Points"**.

SDG 5. GENDER EQUALITY

SOCIAL SUPPORT

BIOTECH University improves **social support measures** in the area of maternity and paternity:

- The University develops measures aimed at developing human resources in the sphere of assistance to families and children, organizing retraining, professional development and methodological support for specialists on the basis of modern approaches;
- The University implements educational activities in the field of maternity and paternity;
- the University cooperates with the authorities, business and the public in the field of maternity and paternity.

POLICIES FOR SUSTAINABLE DEVELOPMENT (from 2020)

- **Maternity and paternity policies**
- **Policy of non-discrimination against women at the University**

The University also, in accordance with the **Labor Code of the Russian Federation**, provides all fixed opportunities for fathers and mothers to care for a child:

- parental leave may be used in full or in parts by the child's mother or father until the child reaches the age of 3 years;
- for the period of childcare leave, the employee retains his/her place of work (position);
- maternity leave is counted in the total and continuous employment record;
- An employee with two or more children under the age of 14, an employee with a disabled child under the age of 18, a single mother raising a child under the age of 14, or a father raising a child under the age of 14 without a mother, may be granted additional annual leave without pay at a time convenient for them, up to 14 calendar days.

MEASUREMENTS

- The Russian Biotechnology University together with the **Moscow Regional Branch of the Union of Women of Russia**, the **Moscow City Council of Women** and representatives of the Moscow Young Guard took part in the **"Sweet Gift" campaign** to support soldiers undergoing treatment in a hospital near Moscow.
- **Deputy Chairman of the State Duma of the Russian Federation B.A. Chernyshov** congratulated the female staff of BIOTECH University on March 8, noting how important the role of women in the work team is: "Our women are heroines, it is unbelievable how many things fall on women's shoulders. I congratulate your loved ones, your moms, your daughters, sisters on this holiday. Stay as wonderful as you are, let everything work out. We, men, will always be a mountain for you, we will take care of you"
- In BIOTECH University at the Sokol and Talalikhina venues during the year, students from the **"Backstage" theater club** once again presented the beloved play **"8 Loving Women"** at the Sokol and Talalikhina venues
- **The dance group "Inspiration"** held a report concert in a new format - they showed a dance performance "Ballad of Lada"
- **"Women's KVN team of BIOTECH University "** successfully performed in one quarter and semi-finals at the **International TV League of KVN in the city of Minsk**
- **KVN BIOTECH University teams performed well in "KiVin-2023"**, where "Women's KVN Team of BIOTECH University " received an increased rating
- At the end of the year, a grand show of the **Miss and Mr. BIOTECH University - 2023** contest was held. The winners and participants of the contest were congratulated by Acting Rector of BIOTECH University A. A. Soldatov, Vice-Rector for Youth Policy V. V. Shutenko, Head of the University Youth Policy Department E. M. Chebotaeva, heads of institutes and guests of honor

SDG 6: CLEAN WATER AND SANITATION

BIOTECH University builds its activities in accordance with the principles of rational water consumption, develops educational programs and scientific projects in this area.

In its activities BIOTECH University in terms of SDG6 is guided by the following documents:

- Water Code of the Russian Federation;
- Federal Law of 07.12.2011 N 416-FZ "On Water Supply and Water Disposal";
- Resolution of the Government of the Russian Federation of 29.07.2013 N 644 "On Approval of the Rules of Cold Water Supply and Water Disposal and on Amendments to Certain Acts of the Government of the Russian Federation".

POLICIES FOR SUSTAINABLE DEVELOPMENT (from 2020)

- **Policy on water reuse**

TRAINING PROGRAMS

BIOTECH University realizes the direction of training **06.03.01 Biology:**

- Bachelor's degree program, profile: **Bioecological monitoring and recycling**
- Master's degree program, profile: **Bioresources and aquaculture**

STRUCTURAL UNITS

In the structure of the University there is the **Department of Bioecology and Biological Safety**, which is designed to contribute to solving the issues of biological safety, ecological value of the organism of animals, humans and food products, to carry out educational and scientific activities in the field of mathematical modeling and environmental monitoring of different levels (local, regional, national and global), including international projects in the field of education and science in the framework of this goal established.

The EcoLab was opened on the territory of the BIOTECH University Children's Technopark. This laboratory within the framework of SDG 6 allows to perform scientific research of drinking water and water quality of water bodies, study the impact of industrial and transportation sources of pollution on all human habitats.

MEASUREMENTS

- annual contest with international participation - "**Water of the Year-2022**" was held in BIOTECH University. The aim of the contest is to popularize the culture of conscious drinking water consumption, improve the quality and safety of packaged and bottled drinking waters
- On Ecologist's Day, students and the lecturer of the Food Safety Department, T. Y. Sosedenko, took part in the "**Clean Ponds of Russia**" project, which was held at the MSU Botanical Garden "Aptekarsky Ogorod".
- 4th year Biology student Gavrilova Polina underwent an internship at JSC "**Mosvodokanal**", where she gained the necessary understanding of wastewater treatment processes.
- A. A. Soldatov, Acting Rector of BIOTECH University, and B. A. Chernyshov, Chairman of the BIOTECH University Board of Trustees, met with University students to discuss issues related to **dormitory and everyday life processes**.

SDG 7: AFFORDABLE AND CLEAN ENERGY

BIOTECH University, within the framework of ensuring access to inexpensive, reliable, sustainable and modern energy sources for all, forms an eco-oriented environment, improves the concept of alternative energy sources, and participates in scientific projects in the field of clean energy.

POLICIES FOR SUSTAINABLE DEVELOPMENT (from 2020)

- **Policies for modernization of energy efficiency of buildings**
- **Policies for efficient energy conservation**

The aforementioned documents specify a set of measures aimed at **modernizing campus energy efficiency** and **effectively conserving energy resources**. These policies have been developed to implement them in their activities.

TRAINING PROGRAMS

BIOTECH University realizes the direction of training **16.03.2003 Refrigeration, cryogenic engineering and life support systems:**

- Bachelor's degree program, profile: **Engineering of Industrial Complexes, Refrigeration and Cryogenic Systems**
- Master's degree program, profile: **Refrigeration Engineering, Technology and Life Support Systems Engineering**

STRUCTURAL UNITS

In the structure of the University there is a **chair "Engineering of processes, apparatuses, refrigeration engineering and technologies"**, the scientific activity of which is built around solving issues in the field of development of innovative, energy-resource-saving, environmentally and functionally safe processes and technologies of food production and life-support systems of enterprises. BIOTECH University, together with industrial partners, has created scientific laboratories and centers equipped with modern innovative equipment in accordance with the principles of efficient energy conservation:

- **"Heat and mass exchange processes in refrigeration systems"**
- **"Refrigeration process equipment"**
- **"Climatotechnics and control and regulation systems of engineering systems"**
- The laboratories allow to study energy-saving operation modes of low-temperature air refrigeration equipment for fast freezing of products, energy-saving operation modes of climatic equipment, efficiency of regulation systems.

INDUSTRIAL PARTNERS

- Dantex Industries Ltd.
- The company "MORENA"
- Company KAREL-RUS

SDG 8: DECENT WORK AND ECONOMIC GROWTH

In its activities, in terms of employment and decent work for all, BIOTECH University is guided by the following documents:

- Labor Code of the Russian Federation.
- Collective bargaining agreement between employer and employee.
- Code of Ethics of BIOTECH University faculty, staff and students.
- Internal labor regulations.

POLICIES FOR SUSTAINABLE DEVELOPMENT (from 2020)

- **Policies to combat forced labor, modern slavery, human trafficking and child labor**
- **Pay equity policy**
- **Provision on guaranteeing equivalent rights of employees when outsourcing activities to third parties**

STRUCTURAL UNITS

- **Personnel Department** - in the formation of a stable working team and organization of the personnel accounting system.
- **The BIOTECH University Career Center** provides free career counseling to students:
- helps to create a portfolio that reflects not only the student's specialty and work experience, but also his/her achievements: in academic and scientific work, as well as extracurricular activities
- provides individual career counseling
- conducts trainings, seminars, master classes on employment issues
- regularly prepares a selection of current vacancies for BIOTECH University students
- organizes job fairs, open selections, assessments, excursions to enterprises
- helps to match targeted training to the employer's needs
- organizes internships and traineeships with the world's leading companies
- employs according to the areas of training (specialty)

MEASUREMENTS

- Director of the Institute "Valley of Innovations" took part in the educational and cultural intensive **"Competence Centers: a year on the same wavelength with universities"**
- within the business program of the 30th International Exhibition "Prodexpo-2023" a **round table "Personnel training for the food (bakery) industry: current system and new realities"** was held. The organizers were the Russian Union of Bakers, International Industrial Academy and St. Petersburg Institute of Food Technology Management
- BIOTECH University hosted the **All-Russian Forum "Employment of University graduates with disabilities: ensuring social mobility and integration"**.
- BIOTECH University hosted the **IV Annual International Specialized Conference-Exhibition "Factory of the Future"**, which was attended by more than 50 companies - industrial partners

COOPERATION

- In 2022, the BIOTECH University Career Center together with the **My Career Center** launched the **educational project "Career Ambassadors"**.
- Students took part in lectures, master classes, and networking meetings as part of the **Earnings Academy** educational program. Students took part in the All-Russian campaign "Career Time", the All-Russian contest "Golden Internship", the campaign "Professionals of the Future: Build a Career Today"
- In September 2022, a new **project of career support for students of the BIOTECH University Competence Center** in cooperation with the ANO "Russia - a Country of Opportunities" was launched. Meetings and master classes with employers and industrial partners of the University are regularly held. Creation of a system of support and counseling of students on employment and professional career development in the digital economy is a very important area of BIOTECH University policy.
- In September 2022, BIOTECH University was one of the first to join the implementation of the project of the Ministry of Education and Science and Rosmolodezh to create a franchise network of **student spaces "Stud.Space"**. This is a unified infrastructure standard that will help create conditions for self-realization, comfortable work and development of young people inside universities, as well as establishing two-way communication between the target audience and projects.

SDG 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE

In order to contribute to SDG9, BIOTECH University implements the principles of sustainable infrastructure, promoting sustainable industrialization and fostering innovation in its activities.

STRUCTURAL UNITS

The innovative Children's Technopark "SUPERFOOD Technologies" includes:

1. Biotech landfill:

- City Farming Training Laboratory
- Cell culture laboratory
- Chemical laboratory
- Laboratory "Assessment of quality and safety of food products"
- Environmental Laboratory.

2. "Digital and Additive Technologies Polygon."

- Prototyping and project activities class
- Food Additive Technology Laboratory
- Robotics laboratory and robotics testing ground
- 3D modeling class
- Silicone mold lab
- Production classroom: 3D-farm

3. "Polygon of Quality and Neurosensory Technology."

- Laboratory of "Commodity examination of food products"
- Laboratory of Neurosensorics and Neuroflavoristics
- Packaging of the Future Lab
- Laboratory "Production of Lollipop and Satin Caramel"
- Chocolate Studio

BIOTECH University has established **scientific laboratories led by young scientists:**

- **"Microbiological Laboratory"** develops technology for rational and highly productive utilization of agro- and bio-resources, their efficient processing and obtaining safe and quality sources of food and non-food products.
- **"Laboratory of Ophthalmology, Oncology and Biochemistry of Animals"** is developing methods for diagnosis, prevention and treatment of immune-mediated paraneoplastic ophthalmopathies in animals.
- **"The Laboratory of Industrial Microorganism Biotechnology"** is investigating factors affecting microbial cell biogenesis to produce microbial biomass containing increased concentrations of carotenoids, protein and fatty acids.

MEASUREMENTS

- BIOTECH University hosted a meeting chaired by the Minister of Industry and Trade of the Russian Federation D.V. Manturov on topical issues of **production of machinery and equipment for the food and processing industry.**
- Moscow Mayor Sergey Sobyenin attended the **opening of the BIOTECH University Children's Technopark "SuperFood Technologies"**.
- BIOTECH University presented the **advanced scientific school (ASP) "Engineering bases of sustainable AgroBio Technologies of high conversion"**, which aims to ensure food sovereignty of the Russian Federation by creating a new industry of dual-purpose bio-products with programmable properties.
- the Russian Biotechnology University hosted the **"Innovation Marathon of FoodNet Market Startups" 2022**: 81 projects were defended for two weeks at the University's site with the participation of investors, business partners and potential customers. 12 best projects were presented for open defense, which have investment attractiveness, unique scientific component
- The Russian Biotechnology University hosted the Marketing and Advertising mitap as part of the track **"Creative Industries. New trajectories of higher education"**
- Innovative developments of BIOTECH University students were presented at the **International Forum of Innovative Technologies in Food and Agriculture INNOFOOD-2022**
- The XII **International Forum "Russian Brewing Industry - A Look into the Future"** was held at the Russian Biotechnology University
- Within the framework of the visit to BIOTECH University of Ksenia Pestova, Head of the **Department for Development of Technological Entrepreneurship and Technology Transfer of the Ministry of Education and Science of Russia**, startup projects of the students of the Russian Biotechnology University were presented

INDUSTRIAL PARTNERS

- | | |
|--|---------------------------------------|
| • Local Roots Ltd. | • Gecko Club |
| • SOYUZNAB GROUP OF COMPANIES | • VTB Company |
| • FGBNU "FSC Food Systems named after V.M. Gorbатов" RAS. V.M. Gorbатов" RAS | • Shokoland Ltd. |
| • "Dr. Skalny Laboratory" | • TD "Adversus" Ltd. |
| • "EFCO." | • Rusplast |
| • iSL TECHNOLOGY Ltd. | • Begarat |
| • ATM Acronex LLC | • CandyMood GP |
| • Ministry of Education of the Russian Federation | • Sensory Lab Ltd. |
| • "GOTEK" Federation | • STATE ENTERPRISE SIBUR Holding PJSC |
| • OMRON LTD. | |
| • EPLAN | |
| • Vipered | |

SDG 10. REDUCED INEQUALITIES

TRAINING PROGRAMS

The implementation of **inclusion principles** in BIOTECH University is one of the priority tasks, which means the creation of a friendly and accessible educational environment of the University, taking into account the peculiarities, interests and needs of each student, including students (residents, postgraduates) with special educational needs.

To date, 53 students with disabilities are studying at BIOTECH University. In order to obtain quality professional education for students with disabilities, the University has **adapted basic professional educational programs (APEP)**.

For **complex support of the educational process of students with** disabilities it is envisaged to attract tutors (tutors), pedagogical psychologists, social pedagogues, social workers, specialists in special technical and program means of education of disabled people, sign language teachers, typhlopedagogues from among the scientific and pedagogical staff of the University with the necessary qualifications.

STRUCTURAL UNITS

Institute for Social Projects and Digital Technologies, whose key objectives are the development of socially significant collaborations involving organizations of education, science, entrepreneurship and thenon-profit community, focused on testing and implementation of modern technologies and formats that provide motivated and accessible education for various categories of the population.

BARRIER-FREE ENVIRONMENT

According to the Federal Law of 29.12.2012 № 273-FZ "On Education in the Russian Federation", legislative acts of the Russian Federation in the field of education of students from among persons with disabilities and persons with disabilities, as well as local regulations BIOTECH University is **workingto provide conditions and create equal rights to** education of the above category of persons in programs of higher and secondary vocational education.

BIOTECH University takes measures to **create conditions for unimpeded, safe and convenient movement of** students with low mobility, access to buildings and facilities of the University, such as ensuring accessibility of traffic routes, placement of information and navigation support, duplication of stairs with ramps or lifting devices, equipping stairs and ramps with handrails, contrasting coloring of doors and stairs, allocation of parking spaces for vehicles of persons with disabilities and others. BIOTECH University physical education and sports facilities include sports equipment adapted for students with disabilities of various nosologies, it meets the requirements of accessibility, reliability, durability, convenience.

The BIOTECH University **Library and Information** Center is equipped with specialized workstations for the disabled and persons with disabilities, including: Braille display, magnifier, adapted information input device (adapted keyboard with mouse, as well as specialized glasses for information input, FM-system.

MEASUREMENTS

- Director of the Institute of Social Projects and Digital Technologies BIOTECH University took part in the project session of the Knowledge Hub network: **"Creating an Inclusive Environment in Educational Organizations of Higher Education in the Context of Implementing the Interagency Comprehensive Plan"** within the track "Social Design of **Inclusive Volunteer Initiatives: Motivation, Mechanisms, Tools**" with a report on **"Volunteer Activities in Higher Education Institutions according to the Monitoring of Inclusive Higher Education"**.
- The Institute of Social Projects and Digital Technologies of BIOTECH University organized an introductory meeting with students with disabilities and disabilities, during which the director of theInstitute, A.Y. Nesterova, spoke about the **inclusive project "In the common rhythm of the heart"**
- **The All-Russian Forum "Employment of University graduates with disabilities: ensuring social mobility and integration"** was held at BIOTECH University, where representatives of federal and regional executive authorities, Russian universities, employment centers, non-profit organizations and the business community discussed both successfully implemented practices and existing problems in the field of promoting the employment of graduates with disabilities.
- on the basis of BIOTECH University with the support of the **Russian Union of Bakers and the Commonwealth of Graduates of Children's Homes**, a competition was held among children from orphanages thanks to the project "Career Guidance and Employment of Graduates of Children's Homes", created to promote work at enterprises in the baking industry

COOPERATION

- on the initiative of the Institute of Social Projects and Digital Technologies and the Autonomous Nonprofit Organization "National Center for Promotion of Environmental, Social and Innovative Development of Territories" an agreement was signed on BIOTECH University accession to the rights ofcreators of the **"System of voluntary certification of goods, services (works) in the field of prevention of harm in the formation and provision of a barrier-free environment for disabled people and low-mobility groups, training of experts, subjects of public control and personnel"**.
- **Center for collective use of** special technical means of training to ensure the educational process of students with disabilities and disabilities BIOTECH University (cooperation agreement with the **ResourceEducational and Methodological Center for the training of disabled people and persons with disabilities MGGEU)**.

VOLUNTEERING

BIOTECH University volunteers took part in supporting mobilized people and their families with the **#WEALTHMEMBERSHIP** volunteer movement

SDG 11. SUSTAINABLE CITIES AND COMMUNITIES

As part of ensuring the openness, safety, resilience and environmental sustainability of cities and towns, BIOTECH University participates in projects to develop urban areas and implements projects for the efficient use of the University's territory and infrastructure.

STRUCTURAL UNITS

BIOTECH University Library and Information Center is a renewed unified information space of the University. The library space includes a self-service area, a co-working area, an electronic resources area, a graduate student hall, a lounge area, and a single information window.

The sports complex in BIOTECH University has four gyms, three outdoor sports grounds, sports sections: basketball, volleyball, table tennis, aerobics, soccer, powerlifting, athletics, boxing, swimming, canoeing. Open trainings, competitions and various sports sections are held on the territory of the sports center.

Scientific centers and laboratories

At the end of 2022, construction of the first stage of the **Large Biotechnology Cluster BIOTECH University** was completed at Talalikhina, 33. Also at the Talalikhina site in September 2022, **new projects, laboratories, centers and complexes** were opened, including:

- educational research laboratory of functional nutritionology;
- an educational research laboratory for food systems design;
- agro-security and eco-technology sector

Innovative Children's Technopark "SUPERFOOD Technologies"

- Polygon "Science and High Technologies"
- Polygon of quality and neurosensory technologies
- Digital and additive technologies polygon
- Biotechnological landfill
- The Startup Polygon
- First Step Polygon

Key city projects of the Moscow Department of Education and Science have been implemented at the **Children's Technopark**:

- "Demonstration examination for students of additional general-developmental programs of advanced level".
- Engineering vacations "Programming Workshop"
- Engineering class "Your Perspective"
- Academic class "Nutrition and Dietetics"
- Academic Vacation "Research Academic Vacation with Food"
- University Saturday's project
- Project "TechnoLeto"

MEASUREMENTS

- Moscow Mayor Sergey Sobyenin attended the **opening of the SuperFood Technologies Children's Technopark**: *"More than 20 technoparks have been opened in Moscow. Today we are opening the most delicious, the most interesting Technopark of food production together with the University, which trains specialists in the field of food production of the most different and most demanded, probably, in Moscow. From city-farms, when you can grow food right in the city, to chocolate factories, to restaurateurs, and so on. I am sure that the kids will find it interesting to study here"*
- BIOTECH University hosted the final event that combined the presentation and summarizing the results of the 2022 **Youth Project "Earthlings. Volunteer Farmer Movement"**
- BIOTECH University students took part in the **All-Russian action "Student Patriotic Run"**
- **The All-Russian student patriotic action "Know Our People"** was held in honor of the "People's Unity Day" and is aimed at familiarizing modern youth with a healthy lifestyle.
- The 17th International Youth Gastronomic Festival **"Reviving Traditions. Pokrov"**, where BIOTECH University students took part and won the festival
- students of the Institute of Industrial Engineering, Information Technology and Mechatronics took part in the International Scientific and Practical Conference **"Digital Transformation, smart-city innovations. Problems of sustainable development and environmental protection"**

COOPERATION

BIOTECH University and the **All-Russian State Children and Youth Organization "Russian Schoolchildren Movement"** signed a cooperation agreement aimed at developing joint projects, career guidance, conducting the All-Russian project "Chef at School", organizing joint finals of various competitions and holding them on the basis of the University, organizing scientific research in the field of biotechnology, bioengineering, veterinary science, and popularization of these areas among schoolchildren in our country.

VICTORIES

- BIOTECH University for the first time participated in the **Green and Healthy Office 2022 Campaign**, where it was recognized in the jury nomination - **"Environmentally Friendly University"**
- According to the results of the **Rating of "green" universities in Russia** for 2022, BIOTECH University was included in the **Top 10** and ranked 8th among universities that implement sustainable development and eco-education practices.
- BIOTECH University according to the results of the **Rating of "green" universities of Russia** for 2022 was included in the **Top 5** in the directions: **"Ecological Education"** and **"Waste Management"**
- BIOTECH University Eco-Community was among the TOP-20 winners of the marathon "To Students - EcoLight!"

SDG 12: RESPONSIBLE CONSUMPTION AND PRODUCTION

The University is taking all appropriate measures to improve measures to ensure a shift towards sustainable consumption and production patterns, sustainable consumption and production.

POLICIES FOR SUSTAINABLE DEVELOPMENT (from 2020)

- **Policy on minimizing the use of plastic**
- **Policies on ethical sourcing of food and supplies**
- **Policy to minimize the use of disposable items**
- **Policy on disposal of waste related to hazardous materials**
- **Policy on implementation of separate waste collection**
- **Provision on guaranteeing equivalent rights of employees when outsourcing activities to third parties**

TRAINING PROGRAMS

Bachelor's degree programs are implemented at BIOTECH University:

- **06.03.01 Biology**, profile: **Bioecology and recycling**.
- **18.03.01 "Chemical technology"**, profile **"Ecotechnologies and recycling of polymers and biocomposites"**.

BIOTECH University implements a Master's degree curriculum:

- **29.04.03 "Technology of printing and packaging production"**, profile: **"Packaging solutions and recycling technologies, sustainable development"**

For the competences **"Composites Technology"** and **"Industrial Design"** within the framework of Future Skills the basic professional educational programs were actualized:

- **18.03.01 "Chemical Technology"**;
- **29.03.03 "Technology of printing and packaging production"**.

MEASUREMENTS

- BIOTECH University hosted the V scientific and practical conference with international participation **"Sustainable Development: Packaging Sector"**, where the heads of departments of the following manufacturing companies presented their reports: Rusplast LLC, Sibur LLC, Ecoline Group of Companies, Georg-Polymer LLC, NPO Biotechcomposite JSC, Danaflex Group of Companies.
- BIOTECH University hosted an enlightening lecture with environmentalist Irina Kozlovskikh, PR Director of the **Charitable Foundation "Second Breath"**, on the topic of responsible consumption by the example of the textile industry.
- Within the framework of the STI Accelerator FOODNET, the Russian Biotechnology University hosted a lecture entitled: **"Lean approach to working with startups. Lean startup"**
- BIOTECH University hosted a scientific and practical conference on **"Chemical Technology. Biotechnology. Ecology: ways of integration"**

SCIENTIFIC RESEARCH

- Scientists of the Department of **Industrial Design, Packaging Technology and Expertise of BIOTECH University** together with **Rusplast LLC** started to develop barrier recyclable packaging and finished products based on polymer blends
- Integrated research of polymeric materials containing filler of natural origin (Customer: BIO 108 LLC) on biodegradability and prediction of decomposition time by composting method.
- Study of packaging materials after repeated recycling (customer: Edelweiss LLC) with modeling of packaging compositions and recommendations of compositions for recycling
- Comprehensive assessment of the feasibility and socio-economic consequences of restricting the use of certain types of single-use polymer packaging (Customer: Chemical Industry Promotion Foundation)

SDG 13. CLIMATE ACTION

TRAINING PROGRAMS

BIOTECH University realizes the direction of training **20.03.2001 "Technosphere safety"**:

- Bachelor's degree program, **profile "Environmental Safety and Engineering of Technosphere"**
- Master's degree curriculum, profile **"Environmental and Occupational Safety and Health Management"**

ENVIRONMENTAL EDUCATION COLUMN

During the 2022-2023 academic year, education was successfully accomplished through the publication of articles in Inside Press, the campus newspaper, on environmental and sustainability topics:

- How a student can become a leader in sustainability
- Cyclical economy
- How to start separate collection and waste
- ECOSTUDENT or reusable alternatives to disposable items
- Lean manufacturing

SEPARATE WASTE COLLECTION

In the 2022-2023 school year, the **volume of separately collected secondary raw materials increased**, and the removal, inspection and preparation for recycling was carried out by representatives of the ecocenter "Sobirator". BIOTECH University collected and recycled: **192 kg of paper, 34 kg of plastic bottles, 13 kg of glass, 55 kg of batteries, 15 kg of "good lids". "kind lids"**.

BIOTECH University annually holds an **Action for the collection of old unnecessary electrical equipment "ElectroSbor"** with the support of the ecocenter "Sobirator", for the academic year 2022-2023 was collected **100 kg. of electrical junk**.

BIOTECH UNIVERSITY's eco-community "Green Club" **held a campaign to collect unwanted plastic cards**, which were successfully handed over for recycling **to the ecocenter "Sobirator"**.

MEASUREMENTS

- BIOTECH University participated for the third time in the Annual Youth All-Russian Festival in the field of sustainable development "VuzEcoFest-2023", the theme of which was Mentoring in the field of environmental protection and environmental safety, and held a number of events:
- in the Innovative confectionery center HEALTHFOOD LAB held a lecture **"Lean production (lean catering)"**, which was delivered by E.A. Sharykina, Candidate of Economic Sciences, Associate Professor of the Department of Business Management and Service Technologies. Students got acquainted with the concept of enterprise management based on the constant striving to eliminate losses, which is the most environmentally friendly and economical, as well as with the problems of **protection in the field of environment, global climate change, transition to a closed cycle economy, sustainable development strategy**
- debates were held for BIOTECH University eco-activists, the topic of which was the acute question **"Whobenefits from ecology?"**.
- an ecological master class on **"Decorative creativity in the field of ecology"** on clothing customization, where students learned why ecology suffers from the rapid growth of clothing production and how much the textile industry pollutes the environment
- **Environmental** lessons were held for schoolchildren and college students on the topics **"Environmental Safety"** and **"Sorting Rules for Separate Waste Collection and Ways of Waste Disposal"**

VOLUNTEERING

For the first time, BIOTECH University hosted a waste paper collection campaign under the program of the **"Paper Boom" environmental education project**. Volunteers and representatives of "Green Club" eco-community gave some practical advice on how to sort different types of paper and cardboard and how to prepare them for recycling. **The weight of collected waste paper amounted to 430 kg.**

VICTORIES

- BIOTECH University for the first time participated **in the Green and Healthy Office 2022 Campaign**, where it was recognized in the jury nomination - **"Environmentally Friendly University"**
- According to the results of the **Rating of "green" universities in Russia** for 2022, BIOTECH University was included in the **Top 10 and ranked 8th** among universities that implement sustainable development and eco-education practices.
- BIOTECH University according to the results of the **Rating of "green" universities of Russia** for 2022 was included in the **Top 5** in the directions: **"Ecological Education"** and **"Waste Management"**
- BIOTECH University Eco-Community was among the TOP-20 winners of the marathon "To Students - EcoLight!"

SDG 14. LIFE BELOW WATER

At BIOTECH UNIVERSITY, educational webinars and lectures are devoted to water conservation and the solution of this global problem, international scientific projects are conducted, and the University's professors act as experts in various scientific communities.

MEASUREMENTS

- students of group 19-E-4 and the teacher of the Food Safety Department T. Sosedenko took part in the **action of the project "Clean Ponds of Russia"**, which took place in the Botanical Garden of MSU "Aptekarsky Ogorod".
- Gavrilova Polina, a 4th year student of "Biology" training direction, had an internship in **"Mosvodokanal" JSC**, where the necessary understanding of wastewater treatment processes was given.

SDG 15: LIFE ON LAND

BIOTECH University is responsible for achieving the goals of improving measures to protect and restore terrestrial ecosystems and promote their rational use, rational forest management.

POLICIES FOR SUSTAINABLE DEVELOPMENT (from 2020)

- **Policy on identification, monitoring and protection of Red Data Book species**

TRAINING PROGRAMS

BIOTECH University implements training programs:

- specialization: **36.05.01 Veterinary Medicine**
- bachelor's degree: **36.03.01 Veterinary and Sanitary Examination**
- master's Degree: **36.04.01 Veterinary and Sanitary Expertise**

MEASUREMENTS

- **The National Scientific and Practical Conference "Topical Issues of Bioecological Monitoring of Fauna of the Central Regions of Russia"** was held in BIOTECH University
- students took part in the **annual spring campaign "Every starling needs a comfortable palace!"** on the eve of International Bird Day, building new birdhouses for migratory birds.
- BIOTECH University closely cooperates with the **Federal State Budgetary Institution "Losiny Ostrov National Park" and Losiny Biostation**, takes an active part in environmental events and volunteer assistance, where an interUniversity seminar was held on the topic: **"Topical issues of bioecological safety"**
- BIOTECH University Institute of Veterinary Medicine, Veterinary and Sanitary Expertise and Agrosafety hosted the Scientific and Practical Conference with international participation "Actual Problems of Veterinary Medicine, Veterinary and Sanitary Expertise and Biosafety of Agricultural Products" under the motto **"Healthy Animal - Safe Food - Healthy Human"**.

SCIENTIFIC RESEARCH

- Screening assessment of clinical status and passportization of the population of ungulates inhabiting the territory of the National Park "Losiny Ostrov" (Customer: FGBU "National Park "Losiny Ostrov")
- Development of innovative means of protection of farm animal health and their introduction into production (under the Agreement between the Ministry of Education and Science of Russia, LLC "NVTs Agrovetsaschita S-P." and BIOTECH University)

In the field of veterinary medicine, 3 invention patents have been received in 2022-2023:

1. Whey drink (Denisov S.V.).
2. Mixture for feeding puppies (Denisov S.V., Glamazdin I.G.).
3. A drink based on whey functional purpose (Denisov S.V.)

SDG 16. PEACE, JUSTICE AND STRONG INSTITUTIONS

BIOTECH University adheres to the principles of fairness, openness and academic freedom. The University's activities are structured in such a way as to ensure full transparency of processes within the organization.

POLICIES FOR SUSTAINABLE DEVELOPMENT (from 2020)

- **Policy on identification and engagement with stakeholders (stakeholders)**
- **Policies to support academic freedom**

STRUCTURAL CHANGES

By Order of the Ministry of Science and Higher Education of the Russian Federation No. 993 dated October 17, 2022, the University was renamed into the Federal State Budgetary Educational Institution of Higher Education "**Russian Biotechnology University (BIOTECH University)**".

By Order of the Ministry of Science and Higher Education of the Russian Federation No. 1320 dated 27.12.2022, BIOTECH University underwent the process of reorganization with the incorporation of the **Federal State Budgetary Educational Institution of Higher Education "Pushchino State Natural Science Institute"** as a separate structural subdivision - "**Pushchino Branch**".

UNIVERSITY MANAGEMENT SYSTEM

The management of the University is carried out in accordance with the legislation of the Russian Federation and the Charter of the University on the basis of a combination of the principles of sole authority and collegiality. The management bodies are:

- Conference of employees and students of the University,
- Academic Council of the University,
- University Rector (rectorate),
- Board of Trustees.

In addition, the University management system is represented by collegial representative and expert councils, including self-governance, namely:

- Educational and Methodological Council of BIOTECH University;
- Federal Training and Methodological Association in the system of secondary vocational education;
- Scientific and Technical Council of BIOTECH University;
- Academic Councils of Institutes;
- International College of Technology Cycle Committees;
- Pedagogical Council of the International College of Technology;
- Council of BIOTECH University students.

MEASUREMENTS

In the reporting year, 14 meetings of the Academic Council were held both in person and using electronic communication systems. The meetings considered issues related to the definition of the main perspective directions of the University development, including its educational and scientific activities, human resources and staff of teaching and research workers, as well as issues related to the normative regulation of the main issues of the organization of educational activities, social and educational work. The following issues were reflected at the meetings of the Academic Council:

- On the creation of the Valley of Innovation Institute;
- Technopark - tasks, challenges and prospects;
- On the results of work and prospects of development of the engineering center of additional education;
- On approval of the Regulations on the competition for the creation of international laboratories under the leadership of young scientists of the University;
- On student satisfaction with the educational process according to the results of the questionnaire;
- On the Procedure for organization and implementation of educational activities under educational programs of higher education - programs of training of scientific-pedagogical personnel in postgraduate studies (adjuncture) - Institute of Academicians;
- On the creation of a scientific and educational polygon in Pushchino;
- On the implementation of the project "MSUPP Competence Center",

BIOTECH University presence in **international and national ratings** is expanding every year (25 ratings, including 17 international and 8 national).

BIOTECH University has achieved special achievements **in international rankings in the field of ecology and sustainable development:**

- THE Impact Ranking (2021 - ranked 601-800, 2022 - ranked 401-600)
- UI GreenMetric (2020 - ranked 763, 2021 - ranked 422, 2022 – ranked 278)

BIOTECH University is also improving its positions in **national ratings:**

- National University Ranking by Interfax Group (2021 - 156-159th place, 2022 - 144-146th place)
- Subject ratings of Russia in the ecosystem of "Three Missions of the University" ratings according to RAEX: Food Technology - 2nd place, Biotechnology and Bioengineering - 17th place, Zootechnics - 5th place.
- BIOTECH University ranked 68th in the "Three Missions of a University" rating ecosystem of Russian universities' influence
- BIOTECH University entry into the International Moscow rating "Three Missions of the University", where the University took an interval group in the world rating of 1651-1800

STUDENT ASSOCIATIONS

- Volunteer Center
- Student Scientific Society
- EcoSociety "GreenClub"
- Student Media Center
- Mentor Academy
- Association of headmen
- Student parliamentary clubs
- Student Rescue Squad
- Aurora" pedagogical detachment
- Guitar Club.
- KVN is our university's club!
- Sports club (volleyball, mini-football, basketball, aerobics, chess, cyber sports, table tennis, etc.)
- Rock club
- Vocal club "Second Breath" and "Jam"
- Backstage Theater Club
- Dance group "Inspiration"
- Leisure center

SDG 17. PARTNERSHIP FOR THE GOALS

BIOTECH University acts as a platform for international cooperation, exchange of experience and discussion of topical issues and problems, establishment of ties at the regional and international levels.

PARTNERS

- Dantex Industries Ltd. (UK)
- The company "MORENA"
- Company KAREL-RUS
- Local Roots Ltd.
- SOYUZNAB GROUP OF COMPANIES
- FGBNU "FSC Food Systems named after V.M. Gorbатов" RAS. V.M. Gorbатов" RAS
- "Dr. Skalny Laboratory"
- "EFCO."
- iSL TECHNOLOGY Ltd.
- ATM Acronex LLC
- Ministry of Education of the Russian Federation
- OMRON LTD.
- EPLAN
- Vipered
- Gecko Club
- VTB Company
- Shokoland Ltd.
- TD "Adversus" Ltd.
- Rusplast
- Begarat
- CandyMood GP
- Sensory Lab Ltd.
- STATE ENTERPRISE "GOTEK"
- SIBUR Holding PJSC

COOPERATION

- BIOTECH University became a member of the consortium **Russian-African Network University (RAFU)**.
- BIOTECH University is actively expanding its international activities. As part of the agreement between BIOTECH University and the University of Zimbabwe, the **Food Security Monitoring Center** was established. The Center's mission is to conduct fundamental and applied research in the field of food biotechnology and disseminate knowledge aimed at strengthening food security in the countries of the African continent.

In 2023, BIOTECH University **won 4 international grants:**

1. **Open Education Centers** (grant from the Ministry of Education of the Russian Federation).
2. **Modern methods of teaching Russian as a foreign language** (grant of the Federal Agency for the Commonwealth of Independent States, Compatriots Living Abroad and International Humanitarian Cooperation "Rossotrudnichestvo").
3. **Organization and holding of events in the Republic of Cuba to improve the qualifications of teachers of Russian as a foreign language** (grant from the Federal Agency for the Commonwealth of Independent States, Compatriots Living Abroad and International Humanitarian Cooperation "Rossotrudnichestvo").
4. **Organization and holding of a forum of school leaders in the Kyrgyz Republic** (grant from the Federal Agency for the Commonwealth of Independent States, Compatriots Living Abroad and International Humanitarian Cooperation "Rossotrudnichestvo")

THANK YOU FOR YOUR ATTENTION

**BIOTECH UNIVERSITY
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