

## Reference

### **The center for Commercialization, technology Transfer and the creative industry.**

The Center for Commercialization, Technology Transfer and Creative Industry (hereinafter referred to as the Center for Commercialization) was established as a structural unit of the NAO Al-Farabi KazNU by decision of the Board of Directors No. 5 dated September 15, 2021.

From its creation to the present day, more than 10 agreements on cooperation in the field of scientific, design and educational activities have been signed. Partnerships have been established with various organizations to develop long-term, effective and mutually beneficial cooperation aimed at commercializing the results of scientific and (or) scientific and technical activities. Several meetings were organized with the business community and other persons in order to reach agreements on co-financing of commercialization projects.

A business incubator has been created at the Center, and a regulation on co-financing projects for the commercialization of projects has been approved to support scientists.

Participants in the technology commercialization reactor received co-financing in the amount of more than 140 million tenge. To implement scientific innovation activities, more than 2 billion tenge were received in the form of grants for the commercialization of technologies; as a result of the projects, about 15 patents for inventions were received. The university operates more than 10 innovative production facilities, and also implements more than 70 student innovative projects within the framework of the student business incubator.

Start Up teams from different faculties of the University were created on the basis of the KazNU Technopark.

"Smart-Kelitim". "Digitalization of the judicial and legal system." Project manager: Daniyar Shadykhanov;

- "Volt" is a solar panel monitoring system using GPS technology to maximize the production of clean electricity" Project manager: Asan Abdirahim Abdikuli.

- "Uber is for tutoring." A platform based on the Uber Tutoring model, in which the client chooses the content (direction) himself instead of the teacher (driver)" Project manager: Rosa Baichapanova;

- "StandLab - Development and Engineering Company, engineering, production and marketing of scientific demonstration stands for chemistry, physics and biology classrooms" Project manager: Yerkebulan Maral;

- "BLOCKCHAIN Technology Startup to KazNU", digitization of the al-Farabi Museum of the crypto community crypto kaznu" Project manager Nikita Manankov;

- "KAZNUGIS Startup" is an educational mobile application for students" Project manager: Abdrasulov Yerasyl, Shaimov Beknur.

On November 22, 2022, the Scientific Research Center of Medicinal Plants was opened with the participation of the Minister of Science and Higher Education of the Republic of Kazakhstan Sayasat Nurbek and Chairman of the Board - Rector

of KazNU Zhansait Tuimebayev. The head of the project and the center is Dr. Zhenis Zhanar, PhD, Professor at the University. In 2023, she won a project entitled "Organization of production and commercialization of immunomodulatory and antiviral additives from natural raw materials of Kazakhstan" in the amount of 350 million.

According to the results of the competition for the grant for the commercialization of the results of scientific and (or) scientific technical activities for 2022-2024, NAO al-Farabi KazNU won only one project entitled "Creation of an innovative production center for finishing metal products for the needs of mechanical engineering and instrumentation" (IRN-AR15573976) in the amount of 43,840 786 tenge. The project manager is Galeeva Alina Kulbaevna.

As part of the 90th anniversary of the al-Farabi Kazakh National University, the Chemical Coating Innovations Research and production center for the production of chemical coatings for various purposes and applications was opened. This center was created with the financing of JSC "Science Foundation" as part of the commercialization project.

Within the framework of the signed memorandum of cooperation and interaction between KazNU and JAS Ventures Almaty LLP, a joint incubation program for startup projects from among students, teachers and staff of universities of the Republic of Kazakhstan has been organized. The joint program took place from August 26 to October 20, 2023. As a result, the startup "Aitekit" won. Her product solved the problem of ineffective and non-personalized approaches to treating acne and other skin diseases by providing customers with innovative skin microbiome analyses and personalized beauty products based on their unique needs.

On January 26, 2024, Al-Farabi Kazakh National University for the first time held a scientific and innovative exhibition in Urumqi, People's Republic of China. The event, organized at the invitation of the Ministry of Education of the People's Republic of China, brought together 196 rectors and heads of research centers of local universities, representatives of more than 600 Chinese universities, heads of 40 large manufacturing enterprises and the diplomatic corps of the two countries, scientists and entrepreneurs.

KazNU scientists also presented biologically active additives and herbal teas from medicinal plants, new antibacterial drugs that treat sturgeon species from various diseases.

The exhibition also featured a nano-spacecraft, first assembled on the basis of KazNU and launched into space. In addition, the innovative ALFASAT designer for the development of space robotics and STEM education systems in educational institutions was demonstrated.

In 2023, only 7 projects were submitted to the competition for the commercialization of the results of scientific and (or) scientific technical activities (12 were prepared) applications in the amount of 1 billion 859 million 700 thousand tenge.

Head of the Commercialization Office



Gauhar A.T.