



EDUCATION AND SCIENCE OUTPOST OF NEW KAZAKHSTAN



Almaty 2014





**IN ORDER TO BECOME A DEVELOPED
COMPETITIVE STATE,
WE ARE TO BE A HIGHLY LITERATE NATION**

*N.A.Nazarbayev,
Message of the President and Leader of the Nation
to the People of Kazakhstan*





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ALLOY OF TRADITIONS AND INNOVATIONS

It is generally recognized that Al-Farabi Kazakh National University, famous for its rich traditions is the main smithy that forges the Kazakhstan elite.

It has always been honorable and prestigious to study in Al-Farabi KazNU. Hopes and dreams of thousands of students and their parents come true here.

University alumni occupy the best and key positions in the government, public bodies, within country's various sectors of economy, and this is one of the principal components of the university's prestige.

At present, Al-Farabi KazNU is considered to be the largest university in Kazakhstan.

There are nearly 20,000 students studying from all regions of the country, as well as from neighboring countries and beyond.

Specialists are trained at 14 faculties on 180 specialties at Bachelor's, Master's and PhD levels.

Training is carried out in three languages.

The largest number of scientists is accumulated here, which demonstrates the uniqueness of the intellectual potential of the university.

Classes are taught by 2000 highly qualified teachers, including more than 1,000 doctors and candidates of sciences, professors and associate professors, more than 60 academics, 70 winners of state and nominal awards.

A comprehensive structural modernization of the university was carried out in 2011. Faculties are formed on the basis of the cluster approach, departments are enlarged, conditions are created for the development of science, innovation and education, the material, scientific and laboratory facilities are being strengthened.



ALONG WITH THE BASIC PRINCIPLES OF BOLOGNA PROCESS, AI-FARABI KAZNU WAS THE FIRST IN OUR STATE TO INTRODUCE INTO THE ACADEMIC PROCESS:

- ✓ a competency building approach based on a modular principle of training, interdisciplinary and problem-based learning;
- ✓ experimental educational programs that meet the highest international standards and comparable with the programs of the leading universities of the world.

Educational programs of the University have received the international accreditation of well-known foreign agencies as AQUIN and ASIIN.

Today, our university is the first among higher education institutions of Kazakhstan accepted to “Academic Impact” UN program which was established by initiative of Ban Ki-moon, the Secretary-General of the United Nations.

In the current academic year Al-Farabi KazNU has successfully passed another state certification, students have shown a very high level of knowledge, and the university has been certified in all specialties which confirm its leading position in the national education once again.



Employers give a high rating to the professional competence and broad-based knowledge of Al-Farabi KazNU graduates.





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According to the survey of employers which was conducted this year by an independent agency "Elite", within the estimates of representatives of companies and organizations it was indicated that KazNU has been ranked as a university, presenting the most demanded education which meets the requirements of employers.

The university has achieved tangible success thanks to the implementation 3 of a results-oriented management.

Over the last three years Kazakh National University has moved up to the 300 th position on International QS World University Rankings and this year has entered the top 300 universities being ranked 299th among 800 most successful, internationally recognized universities.



Only three universities of CIS, as Lomonosov Moscow State University, St. Petersburg University and KazNU succeeded in positioning themselves among this group of top universities.



**THE SUCCESS OF AI-FARABI KAZNU ATTRACTED MUCH ATTENTION,
AND ON RECOMMENDATION OF THE QS INTERNATIONAL AGENCY THE
LARGEST HIGHER EDUCATION INSTITUTIONS OF CIS COUNTRIES
APPEAL TO AI-FARABI KAZNU FOR THE PURPOSE
OF GAINING SOME EXPERIENCE**



INTERNATIONAL RECOGNITION

Al-Farabi Kazakh National University was the first to move to the double-degree programs of education. Educational programs with the issuance of double diploma and international certificates have been successfully carried out in collaboration with the universities of America, Europe and Asia. This demonstrates the high competitiveness of KazNU in the global education arena.

Today, the diploma of Al-Farabi KazNU on a whole range of specialties is equated to the diplomas of such prestigious institutions as the University of Lorraine, Strasbourg School of Management, Polytechnic University of Valencia, Lanzhou University and other foreign higher education institutions.



Enrollment in Master's Degree programs of international network universities as Shanghai Cooperation Organization University and University of the Commonwealth of Independent States is carried out annually.

The academic mobility of students is being actively developed. In the frames of this program not only graduate students, but also undergraduate students have an opportunity to visit and study within the leading world higher education institutions.

Only in the last three years 4 300 university students underwent an educational training in foreign universities.

Between 2011 and 2013, nearly 3000 students from overseas universities have been trained within the framework of academic exchange in Al-Farabi KazNU.





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KazNU successfully cooperates with more than 400 incumbent universities all over the world. More than 150 famous foreign scholars visit our university annually for the purpose of delivering lectures, carrying out consultations and sharing scientific experience.

Meetings of teachers and students with Nobel Laureates have become a good tradition of the university. For the last year, Al-Farabi KazNU was visited by seven scientists, who obtained this highest award in the field of science.




Al-Farabi KazNU is the only institution in Central Asia to be included to the membership of International Association of Universities and the first among higher education institutions in Kazakhstan to be accepted into the United Nations' Academic Impact Program, in the framework of which the University leads the UN's Global Hub on Sustainability.



Al-Farabi KazNU has become the only one among the universities of the CIS countries which had an opportunity to carry out its own section at the United Nations Conference on Sustainable Development "RIO+20", which was held in 2012 in Rio de Janeiro (Brazil).






Organization of this section has eventually resulted in establishment of the international consortium of universities "Green Bridge through generations". This is a particular contribution of the team aimed to support global ideas of the President of Kazakhstan on "Green Bridge" and involvement of the academic and scientific community in implementation of N.A. Nazarbayev's initiatives.



Taking into consideration the high potential of the university, UNESCO decided to set up a Central Asian hub on the issues of sustainable development on the basis of Al-Farabi Kazakh National University

There will be held the III Congress of Asian Universities' Rectors in 2014 in Kazakhstan on the basis of KazNU. This will be a significant event in the year of glorious jubilee celebration - the 80th anniversary of the university. It will definitely raise the recognition of KazNU and will assist in the establishment of strong links with leading universities of the world, as well as in sharing the best practices with them.

All the aforementioned achievements are the indication of high competitiveness of the university on an international scale: its management efficiency and accuracy of the strategic development direction.





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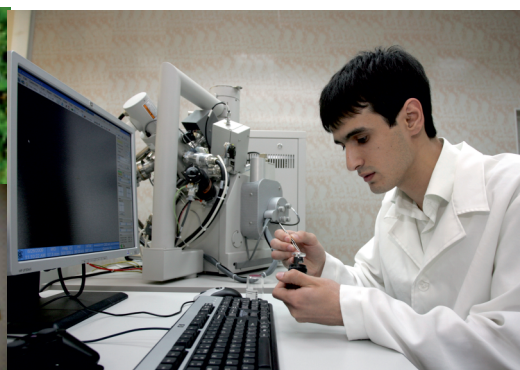
THE GROWING POINT OF ECONOMY BASED ON KNOWLEDGE

KazNU as well as other world's modern research universities, follows the important principles of Wilhelm von Humboldt: "Explore while teaching, teach while exploring"

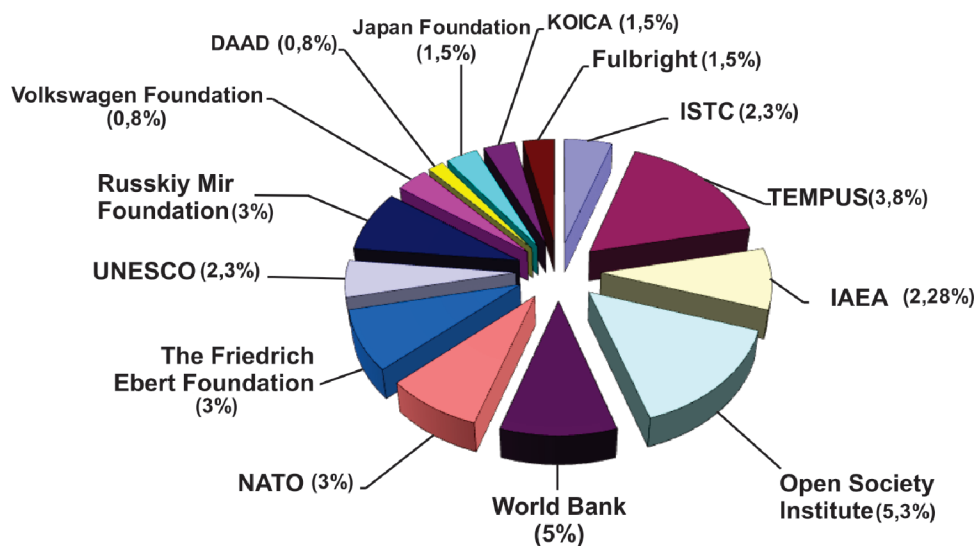
A unique research and innovation infrastructure has no analogues in other universities of the country. Influential Science and Technology Park was established, there are more than 30 research institutes and centers in the university that fulfill the major share of research projects implemented in Kazakhstan.

Over the past two years, funding for research and development activities at Al-Farabi KazNU was increased by 4 times and today equals 4.5 billion tenge.

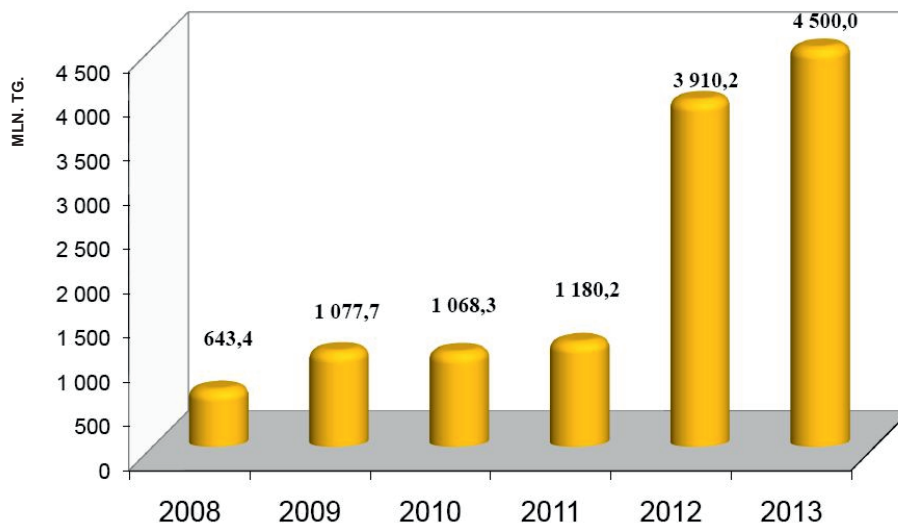
It points to the fact that the university conducts an active research activities, it is creating new technologies, products and materials that fully meet the requirements of competitiveness.



Scientific projects funding by international foundations and organizations



Funding allocation for R&D





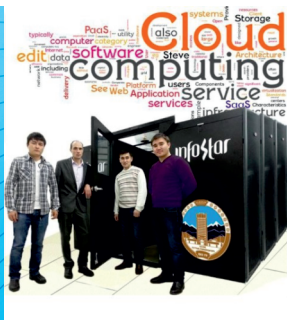
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For the first time in Central Asian region, world famous company «**HEWLETT-PACKARD**» established a modern academic and research center in KazNU. And the Japanese company «**KONICA MINOLTA**» will open a laboratory of advanced technologies at the University. Al-Farabi KazNU students and teachers will study about advanced technology on the latest printing and IT equipment, both on the practical classes and through online courses. Upon completion of the training the best students will be invited to undertake an internship at branch offices of the company.

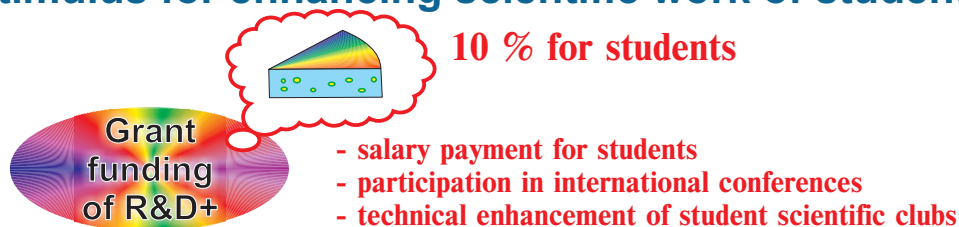
This indicates a special recognition of the scientific potential of the university by companies of global renown, as they open their offices only in those universities that meet international standards of education, generating new knowledge and technology, which have a high scientific and innovative potential.

Implementation of «E-campus» project, as well as establishment of research centers and laboratories is aimed at achieving the objectives set by the President in the "Strategy Kazakhstan-2050" on introduction of new learning technologies in the curriculum, mandatory consolidation of production practices, cooperation of science and business, involvement of employers into the educational process.

There was developed an integrated system of academic-research and scientific-research work of students, due to which the themes of final and master papers are synchronized to specific topics and projects of research development activities.



The allocation of 10% of the amount of grant funds for supporting the students' science performs as a powerful stimulus for enhancing scientific work of students



**360 million tenges were allocated
for development of students' science in 2012**

The following entities are functioning within the frames of Student Scientific Society of Al-Farabi KazNU:

- 135 scientific circles at the faculties
- 13 student business-incubators at the faculties
- University Intellectual Club

Everything is aimed at ensuring that alumni graduating from the university as competitive specialists, would not search for work, but on the contrary, would become creators of new working places by opening small innovative enterprises of a new type by themselves. In the purpose of realization of this task, business incubators and student start-ups are being implemented in each faculty.

For the first time students of KazNU while undergoing an internship at the University of Tokyo have started the work on a *unique joint project with Japanese colleagues on establishment of the first Kazakhstani nanosatellite.*



**This development along with other projects and developments will
be presented at the planetary scale exhibition "EXPO-2017"**





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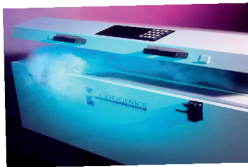
Best student innovation projects of the University



"Energy-saving lamp"
(Faculty of Physics)



"3D cartoons"
(Faculty of Mechanics
and Mathematics)



"Cryo-suitcase"
(Faculty of Physics)



"KazNU label"
(High School of Economics and Business)



"Eco-interior"
(High School of Economics
and Business)



"Bio-soap"
(Faculty of Biology
and Biotechnology)



"Youth Travel"
touristic company"
(Faculty of Geography
and Nature Management)



"Kipa.kz"
(University-based
student incubator)



"Velocity"
(Faculty of Biology
and Biotechnology)



The project “Innovative Cluster of Al-Farabi Kazakh National University” is included to the state program aimed at the development of innovation for the period of 2010-2014



**ESTIMATED COST
OF THE PROJECT IS 11, 02 BILLION TENGE**

**CONSTRUCTION OF PHYSICAL INFRASTRUCTURE
IS 5, 98 BILLION TENGE**

PROJECT ADMISSION IS 5, 04 BILLION TENGE

Within the frames of this project, research works are conducted on priority areas such as nanotechnology, alternative energy and energy saving technologies, biological and physico-chemical technology, pharmaceuticals, advanced materials, biomedicine and others.

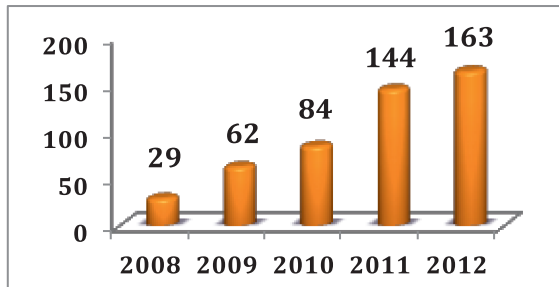
Creating an innovative cluster will turn the university into the growing point of the "new" economy, based on knowledge.

As a result of international expertise in the field of science, the experts of the highest rank of the European Union claim that KazNU is the undisputable leader among the universities of Kazakhstan on scientific and technological innovation capacity.



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University is ahead of other universities in accordance with the number of publications in scientific journals of international rating.



H-INDEX OF KAZNU = 27

**THE AVERAGE CITATIONS
PER PUBLICATION - 3.12**

**Every fourth publication of Kazakhstani citizens in
the top-rated journals of Thomson Reuters is
the contribution of scientists of KazNU**

A number of university scientists have a Hirsch index, which is equatable with the indices of the top university scholars of the world.

KazNU is a leader among national universities by the number of patents, including international ones as well.

The achievements of our university in the field of scientific innovation led to the adoption of state decision on implementation of the third stage of “PIT-Alatau” (Park of Innovation Technology) on the base of Al-Farabi KazNU.

It is expected that the most promising developments of scientists and scientific organizations would be introduced into the production, commercialized and the innovation belt of small businesses would be formed as the main result of the creation of this innovation cluster.



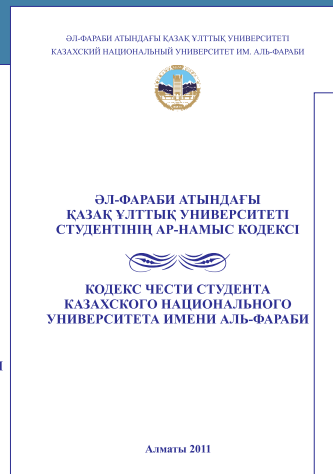
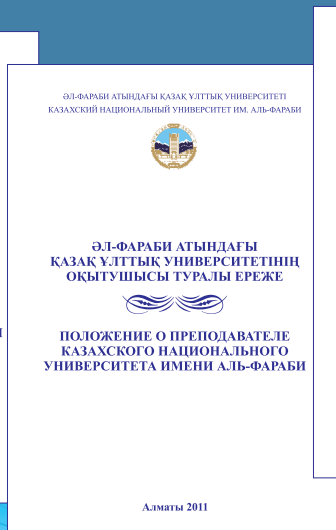
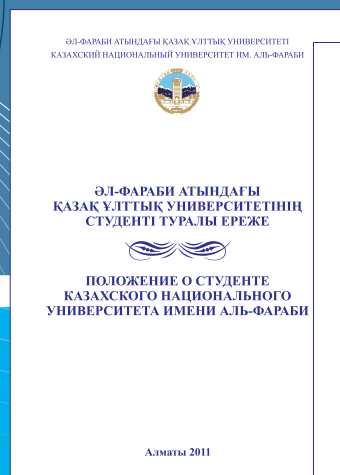
SOCIAL PARTNERSHIP IN ACTION

The high status of the university, it refers to not only the level of students' knowledge, but also their active citizenship, social responsibility, spiritual and moral qualities.

Today KazNU educates young people – the patriots of their country, who will determine the future of Kazakhstan tomorrow. Therefore, the diploma of Al-Farabi KazNU is a kind of a quality mark.

The principle of social partnership is actively implemented in KazNU and it defines the self-regulating nature of the relationship among the team members. On the basis of this principle, the students, along with the faculty and university administration act as equal partners, participating in all university processes and sharing responsibility for achievement of common goals.

As one of the mechanisms on partnership relations management, there are realized the most important documents at the university as Code of Corporate Culture of the faculty and staff, code of honor of KazNU students, Regulations on KazNU teaching staff and student.





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Different public associations are involved in settling the important issues of the university life:

The Council of Elders of the University, the Union of Employees “Parasat”, KazNU Women's Union, Commission on Ethics, Students self-government bodies, Council on humanization, the Board of advisors, and other social and professional councils. For the public management of the university such public institutions as the *Alumni Association, Employers' Council, International “Al-Farabi Kazakh National University Friends Club”, as well as British Alumni Club* are involved.

SUPERVISORY INSTITUTE IS REVISED, where the experienced teachers as advisors perform the mentoring over student groups. Councils and schools of supervisors and advisors are actively carrying out institute's activities.

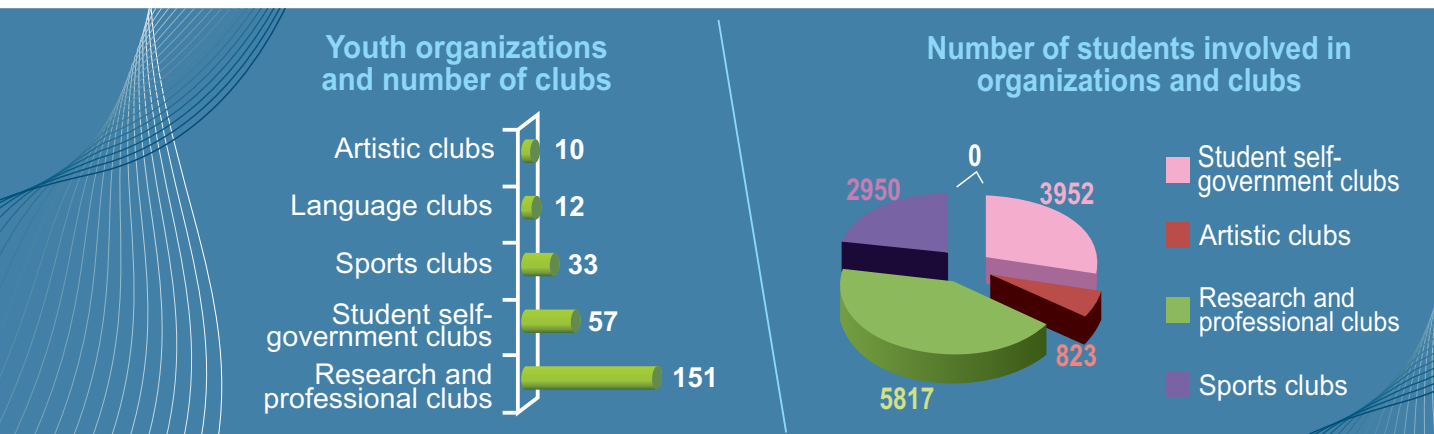
Currently, a successful experience of KazNU in the process of implementing curatorial work is borrowed by other higher educational institutions.

The club forms of working with students allow channeling the energy of students in a positive direction. Such activity is widely used in the best universities of the world, and today is being promoted in KazNU.

There are 250 students' clubs functioning at KazNU and more than a half of the students of the university are actively involved in their work.



These are patriotic clubs, professional and scientific clubs, amateur clubs, sports clubs, school leadership, social and educational ones.



In recent years, KazNU has been claimed as an undisputable leader in the field of students' sports being awarded the title of the winner of the Summer Universiade among the universities of the Republic of Kazakhstan within three seasons at a run.

11 student-athletes of the University participated in the Olympic Games in London for the first time in the history of the institution, as a result Svetlana Podobedova, the 2nd year student of Law school won the title of Olympic champion in weightlifting.



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INNOVATIVE SOCIAL PROGRAMS carried out in the university are aimed at improving students' life quality, development of moral values and ethical standards.



The project «Айналаңды нұрландыр!» / «Brighten your surrounding up!» is directed to creation of spiritual and moral values within a student community and it is implemented with a broad information support of the republican newspaper «Айқын/Aikyn».

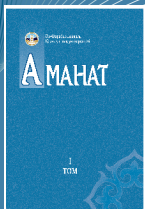


In the frames of the project «100 кітап» / «100 books», there was established a unique discussion platform for consideration of a must read books list for university students.



The movement "KazNU - GREEN CAMPUS» has gained an enormous breadth which is aimed at supporting of students' environmental initiatives.

Also, there are successfully implemented social projects such as "The Cult of a healthy body", "Day of the national cinema" and many others.



Publication of book series as «Өнегелі өмір» / «Insightful life» and «Аманат» are dedicated to the best scientists and university alumni who perform as role models for the youth.



It should be noted that a **SOCIAL PACKAGE** for students was introduced at the university, in the frame of which more than thousand students benefit from social support in the form of targeted financial help and provision of a labor job, privileges and discounts in tuition fees.

EACH YEAR UP TO 500 STUDENTS who have «excellent» and «good» marks, belonging to socially vulnerable categories are discounted for payment of tuition fees from 10 to 25%.

UP TO 400 STUDENTS have the opportunity to work as an auxiliary educational staff, as well as within students' construction organization and service staff every year.

MORE THAN 500 TALENTED STUDENTS are paid for their participation in research projects.

170 ORPHAN-STUDENTS receive monthly financial assistance.

145 STUDENTS WHO HAVE diabetes and tuberculosis receive food.

To support talented students over 300 sponsor scholarships for a total amount of 30 million tenges are allocated annually. In this academic year 127 lecturers and staff members received apartments in the residential complex "Akkent."



The social package *is formed not only at the expense of the university but also from other serious financial investments of alumni and other sponsors.*





CAMPUS OF A GLOBAL SIGNIFICANCE

The Campus is like a magnet that attracts applicants. New modern academic buildings, green avenues, fountains, groomed paths, cozy and comfortable student dormitories – all these show that KazNU campus isn't only a bright place of interest, but also the only student campus in our country of international standard.

Cultural objects located on the territory of KazNU: museums with unique exhibits, U. Dzholdasbekov Students' Palace, the largest sport complex with gyms, sport fields and the stadium. The campus is fully covered by Wi-Fi network.

KazNU is the only higher education institution in Kazakhstan which has its own recreation camp in Issyk-Kul, there is situated a modern health and sports complex as well.

Construction works of Campus are still going on. The largest University Library in the Central Asia has opened its doors recently.

In the near future there will be a corpus of Cluster of engineering and high technologies and a swimming pool.



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Center of student services will be launched in the new building this year and will work according to the principle of “one window”.

Students will be able to arrange their documents, obtain professional consultation and needed assistance here. In addition, there will be located a supermarket, cinema, internet cafe, places of consumer services.

Until the end of the year, a new dormitory with 650 places will be ready. Construction of the House of young scientists for Master's and PhD Degree students has been started this year.

In the frame of construction of a biomedical cluster in KazNU, a construction of a powerful medical center will start in the short term with an area of over 55 thousand square meters. There will be a modern hospital, scientific and research laboratory and necessary infrastructure.

Creation of a biomedical cluster in KazNU will provide concentration of the latest knowledge and technology, to carry out research projects and apply them in practice.

Qualitative health care will be accessible not only for teachers and students of KazNU, but also for other universities in Almaty. Foreign investment was attracted for the purpose of implementation of the project: universities, engineering, design, construction and financial companies of Kazakhstan, South Korea, Hong Kong and Singapore also take part in it.

Medical diagnostic center will start its work in the new academic year on the territory of the campus. Establishment of this entity was invested by South Korean clinic "Gangnam Severance"

Teachers and students will receive qualitative medical services corresponding to international standards with high-tech equipment and if it is necessary, there is a possibility to be treated in Korea on preferential terms.



In order to create a new formation in the university KazNU implements the project entitled "Al-Farabi University - Smart City". Implementation of the new university model enables to demonstrate innovative approaches to the development of modern society based on the synergy of technological, spiritual and moral concepts.

By 2020 at least two universities in the country must enter into the list of top ranking best universities of the world. "Al-Farabi University - Smart City" project serves as a methodological basis for implementing this important national task has been set by President.
Smart universities are the basis of the Smart cities of our country, which ultimately create Smart Kazakhstan.



KazNU's team will make every effort to carry out the new tasks have been set in the Strategy "Kazakhstan-2050" and will make a significant contribution to realization of goals for Kazakhstan's joining the world's 30 most developed nations.



for notes



