NAZARBAEV UNIVERSITY AT
NAZARBAYEV UNIVERSITY

Nazarbayev University (NU) was founded by the first President of the Republic of Kazakhstan Nursultan Nazarbayev. The University aims to develop into a research university of international renown combining education, research and innovation. Nazarbayev University will educate the future generations of leaders of the Republic of Kazakhstan and other countries in science, public administration and various professions, thus contributing to the future development of the country.

VISION

To give Kazakhstan and the world the scientists, academics, managers and entrepreneurs they need to prosper and develop.

MISSION

To be a model for higher education reform and modern research in Kazakhstan and to contribute to the establishment of Astana as an international innovation and knowledge hub.

NU MANDATES

Educational Reform Leadership
To ensure that the lessons of NU’s experience are transferred to and understood by other universities, schools and research centers in Kazakhstan.

Academic Excellence
To achieve NU’s mission by developing and maintaining academic excellence.

Research Excellence
To develop a faculty-led program of world-class research and partner with the world’s best researchers and research institutions.

Creating an Integrated Academic Healthcare System
To establish a healthcare system that will provide a model for healthcare services throughout Kazakhstan.

Innovation and Translating Research into Production
To become Kazakhstan’s main driver of innovation, leading the way for Astana to become a regional innovation hub.

NU’s Engagement with the Public Sector and Industry
NU actively collaborates with government, industry and international organizations to support national and other important initiatives.
NU has been a part of Kazakhstan’s larger education reform agenda. NU is a testing site for innovative educational and research projects, the successful results of which are to be transmitted to the country’s higher education system with the Graduate School of Education (GSE) leading this task.

GSE, international experts and faculty from Cambridge University and University of Pennsylvania developed a Roadmap for Education Development in Kazakhstan 2015-2020 for the Ministry of Education and Science (MES).

In support of the higher education governance reform initiated by MES, GSE trained top executives of local universities to help them manage the complex process of transformation in higher education.

To facilitate the development of trilingual education GSE has tailored special graduate programs. Together with the Educational Excellence Center at NU, university provides English language training for subject teachers from across Kazakhstan.

GSE faculty also provides training workshops for faculty of regional universities on following topics: interactive teaching methods, research methods, critical pedagogy, publication of research articles, academic English.

>300 university top managers underwent PDP

>4000 teachers attended English language training

>1200 participants attended workshops in 13 cities of Kazakhstan
SHARING NU’S EXPERIENCE

Disseminating NU’s experience is one of the priority institutional tasks. Translation of NU experience is carried out on a regular basis through training, seminars, workshops, including at the annual Eurasian Higher Education Leaders Forum. In 2017 NU created a special office to disseminate its experience.

EURASIAN HIGHER EDUCATION LEADERS’ FORUM (EHELF)

Since 2012 the annual EHELF has served as a platform for international debate on higher education, and to disseminate NU’s experience to the public. Typically, the Forum attracts about 500 participants both nationally and internationally.

Following topics have been addressed at EHELF:

- 2018: Innovating Higher Education in the Age of Disruption
- 2017: Governance, management and leadership in higher education
- 2016: Higher education and modernization of the economy: innovative and entrepreneurial universities
- 2015: Graduate employability in the 21st century
- 2014: Successful universities: what are they and how to build one?
- 2013: Educational policy achievements in Kazakhstan
- 2012: Global trends in higher education and their impact on the region.

Special Workshops

NU Library
The NU Library has developed into a reference training center for professional development and capacity building of librarians of Kazakhstani universities. NU librarians actively publish on library operational work.

NU Registrar
The NU Registrar’s Office is at the core of the initiative to modernize academic Registrar’s Offices at Kazakhstani universities. NU Registrar’s Office is heading the creation of the Kazakhstan Association of Academic Registrars.

Other Workshops
Special workshops on sharing experience are conducted by the Office of the Provost, Admissions Department, Department of Student Affairs, Career Advising Center, among others.

Professional Associations
NU promoted the creation of professional associations to foster exchange of ideas and best practices in various areas of higher education: Kazakhstan Educational Research Association, International Association of Kazakh Language Teachers.
ACADEMIC EXCELLENCE

Education at NU extends beyond academic programs. Complimentary to quality academic programs across a broad spectrum of disciplines, we provide a wide range of extra-curricular activities, interdisciplinary programs, research experience, internships and opportunities to study abroad and many more. We encourage innovation, discovery and entrepreneurship in our students. The core building blocks of NU’s academic excellence can be summarized as:

**Academic integrity:** zero tolerance for disciplinary, academic and research misconduct.

**Merit based admission and progression:** rigorous admission and progression requirements reflecting international standards.

**Core curriculum:** undergraduate core curriculum includes mandatory ethics, digital literacy and entrepreneurship courses.

**Integration of teaching and research:** students’ engagement in research related tasks in classes, involvement in faculty-led research projects, and participation in research competitions and international conferences as co-authors when possible.

**Student-centered environment:** curriculum, instructional methods and technology are designed to liberate students’ talents and create opportunities for exploring new ideas.

**Educational technologies:** extensive use of digital solutions to meet contemporary teaching and learning needs.

**Multicultural environment:** interaction with international faculty and exposure to various backgrounds and cultures to develop intercultural competences.

**Study abroad opportunities:** expansion of horizons and enrichment of the learning experience by Integration into international academic community.

In 2017 NU has successfully completed the initial phase of the European University Association independent external evaluation of its academic quality, research and strategic management practices.  

*More about the IEP report:*
NU SCHOOLS

• School of Engineering
• School of Humanities and Social Sciences
• School of Medicine
• School of Mining and Geosciences
• School of Science and Technology
• Graduate School of Business*
• Graduate School of Education*
• Graduate School of Public Policy*

*graduate programs only

As of May 2018 for the academic year 2018-2019. Details of the programs at website www.nu.edu.kz

NU ACADEMIC PROGRAMS

• Foundation Program (NUFYP)**
• Zero Year program for graduate students**
• 20 Undergraduate programs
• 25 Master Programs
• 3 PhD Programs
• 1 Doctor of Medicine Program

** one year foundation program

GRADUATE ATTRIBUTES

• Possess high personal integrity;
• Possess an in-depth and sophisticated understanding of their domain of study;
• Intellectually agile, curious, creative, and open-minded;
• Thoughtful decision-makers who know how to involve others;
• Entrepreneurial, self-propelling and able to create new opportunities;
• Fluent and nuanced communicators across languages and cultures;
• Cultured citizens of the world while being good citizens of their respective countries;
• Prepared to take a leading role in the development of their country.

Source: NU Registrar’s, Admissions and HR Offices as of 3 May 2018

Student: Faculty ratio

25

international students

10:1

51% Female

4223 students

4% Medicine

35% Humanities and Social Sciences

61% STEM

715 Master’s students

97 PhD students

69 Doctor of Medicine students

702 NUFYP students

58 NUZYP students

760 FOUNDATION students

Source: NU Registrar’s, Admissions and HR Offices as of 3 May 2018

33 % of students of 2017 intake are top of their class (Altyn belgi holders)
NU GRADUATES

NU has sent out graduates since 2015. The President of the Republic of Kazakhstan Nursultan Nazarbayev presided over all four ceremonies. The commencement of the fourth graduating cohort of 811 students has taken place in early June 2018.


<table>
<thead>
<tr>
<th></th>
<th>Employed</th>
<th>Pursuing graduate studies</th>
<th>Job hunting</th>
<th>Other (gap year, career break, maternity leave etc.)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduates</td>
<td>626 (48 %)</td>
<td>571 (44%)</td>
<td>72 (5 %)</td>
<td>39 (3%)</td>
<td>1308 (100 %)</td>
</tr>
<tr>
<td>Graduates</td>
<td>417 (84 %)</td>
<td>34 (7 %)</td>
<td>8 (2 %)</td>
<td>38 (7%)</td>
<td>497 (100 %)</td>
</tr>
<tr>
<td>Total</td>
<td>1043 (58 %)</td>
<td>605 (34 %)</td>
<td>80 (4 %)</td>
<td>77 (4 %)</td>
<td>1805 (100 %)</td>
</tr>
</tbody>
</table>

435 Master’s Program
89 PhD program
13 Joint Master’s + PhD program
68 Doctor of Medicine program

NU AMBASSADORS AROUND THE WORLD

Almost half of our graduates have chosen to pursue studies in top universities around the world. Examples of international destinations: Cambridge University, Columbia University, Duke University, ETH Zurich, King Abdullah University of Science and Technology, London School of Economics and Political Sciences, Massachusetts Institute of Technology, National University of Singapore, Oxford University, Seoul National University, Stanford University, Tsinghua University, University College London, University of California Berkeley, University of Pennsylvania and others.

NU alumni chapters are established in the USA, UK, Singapore, South Korea, China, Germany, Almaty and Atyrau.

Source: NU Career Advising Center as of 15 May 2018
EMPLOYMENT

NU graduates are employed in a wide range of industries, continuing their education or have started their own business. A majority of the employed graduates work in Kazakhstan, whereas a number of them began careers across the globe.

In Kazakhstan
- KPMG
- PwC Kazakhstan
- Tengizchevroil
- Ernst & Young Kazakhstan
- Samruk-Kazyna
- BI Group
- Electrovoz Kurastyru Zauyty (EKZ)
- Schlumberger Kazakhstan
- McKinsey & Company Kazakhstan
- KazMunayGas
- Air Astana
- General Electric
- Other

Employment Abroad
- Booking.com (Netherlands, Amsterdam)
- Cisco Systems (Czech Republic - Prague, Netherlands - Amsterdam)
- Specialist Computer Centres (USA, Chicago)
- Google Inc (Germany - Berlin, UK - London)
- International Civil Aviation Organization (Canada, Montreal)
- Lenovo Group Limited (China, Beijing)
- Procter & Gamble (Poland - Warsaw, Russia - Moscow)
- SKC film and chemical materials company (South Korea, Seoul)
- Other

Startups by NU graduates
- AE - lab – predictive maintenance for dry-type transformers
- Aqua point – production of devices for high quality drinking water
- Black Rainbow – animation studio
- Children’s Development Foundation – education for socially vulnerable population
- Ecoprot – production of sports nutrition
- Health Project – production of healthy nutrition
- Observer - security and access control system based on face recognition
- Remonteka.kz – IT repair services
- Skills Pro-robotics courses for kids
- ZAF Leather – manufacturing of leather products
- Other

Source: NU Career Advising Center as of 15 May 2018
NU research covers both fundamental and applied, predominantly STEM disciplines, life science, social sciences and education reflecting Kazakhstan’s priority development areas. NU collaborates with government, industry and higher education institutions to address economic, technological and human capital challenges of Kazakhstan and the world.

Moving forward, NU is building the robust structures of an international research university by strengthening the graduate programs, attracting professors globally acknowledged for their research and teaching contributions, hiring a large number of postdoctoral researchers, and fostering multi-disciplinary research collaboration.
KEY RESEARCH DIRECTIONS

Construction, Infrastructure, Transport Systems and SMART Cities

Physics and Space Exploration

Biomedicine and Neurosciences

Anthropology, Sociology and History

Eurasian Studies

Education

Finance, Markets and Governance

Innovation and Entrepreneurship

Oil, Mining, Geosciences and Resource Management

Advanced Materials, Energy and Sustainable Development

Robotics and Intelligent Systems

Computer Engineering and Data Sciences

NATIONAL LABORATORY ASTANA

The National Laboratory Astana conducts mostly applied research funded by government. It consists of the Center for Life Sciences and Center for Energy Research and Advanced Materials Sciences.

NAC ANALYTICA

NAC Analytica provides economic and other policy consulting and analytics services to the state and private sector.

NU SCHOOLS

The largest share of research at NU is generated by faculty, post-doctoral fellows, graduate and undergraduate students.

>1700 publications

~400 researchers (NU faculty and NLA staff)

10.9% of publications in the top 10% most cited publications worldwide

>80 research and teaching laboratories

>130 publications by students (individual and co-authored)
NU faculty and researchers have developed a **wide international research network** by partnering with more than 800 international institutions including Columbia, Harvard, Princeton, Cambridge, Oxford, Seoul National University, Tokyo University, Hong Kong University, INSEAD, Max Planck Institute and others.

NU’s commitment to collaborate with leading international research bodies is evidenced by growing cooperation agreements, such as European Union (Horizon), Erasmus, World Bank, British Council, Royal Academy of Engineering (UK), Flemish Science Council and other institutions.

As a young and dynamic university, NU continuously improves its research policies and procedures to create a more vibrant environment for discovery and innovation. Student involvement in research and collaboration with government and industry is a top priority.

To bring together early career researchers in Kazakhstan, NU has established a Young Researchers Association. It is expected that the Association will become a platform for interaction between young researchers, interdisciplinary dialogue, information exchange between the research community and promotion of ideas of young researchers.

NU is a co-founding member of the **Asian Universities Alliance (AUA)** along with other fourteen top Asian universities. Launched in 2017, AUA’s mission is to jointly address regional and global challenges by fostering faculty and student mobility and research collaboration, discuss higher education strategies and policies in Asia and raise the international profile of Asian universities.
STUDENT ENGAGEMENT IN RESEARCH

We are building an institutional research culture starting with our students. NU provides students with comprehensive research experience and exposure to research frontiers throughout their studies. NU has integrated scholarly research at all levels of academic programs. With support of our faculty and researchers, students participate in multidisciplinary competitions and projects, publish international research publications and aim to contribute to national and international discourse. Some of the examples of student research activities in 2017 are:

International Student Research Competition

NU students’ team won a Gold medal in iGEM 2017 competition – a prestigious international undergraduate competition in synthetic biology, where the goal is to develop a novel system that utilizes genetically engineered organisms.

Best Paper Award at Conferences

NU sophomore student received the Best Paper Award at the PHENMA-2017 (“Physics and Mechanics of New Materials and Their Applications”). Students’ work was recognized as one of the three top papers at the 5th Guangzhou International Symposium on Oncology.

Eco-Marathon Asia 2018 “E-Vehicle”

A team of engineering, science and technology and social sciences students designed and built an energy efficient car under their capstone project and successfully participated in the Shell Eco-Marathon Asia 2018 in Singapore, one of the world’s leading energy efficiency competitions.

This competition challenges student teams around the world to design, assemble, test and manage ultra-energy-efficient cars. Our young and gifted project team placed in the Top 20 among 120 student teams in the category “Electro Mobile Prototype Powered by Electric Battery”. The car drove a distance of 77.4 km on a charge of 1 kWh.
FACULTY

NU places high premium on faculty excellence and diversity. NU is building an internationally competitive research-active faculty with winners of numerous awards and membership of honorary and professional societies.

Our diverse faculty come from over 50 countries. Top 10 countries of origin are the USA, UK, Canada, Greece, Italy, South Korea, Russia, Australia, Turkey and India.

NU faculty and teaching community consists of 428 full time faculty and instructors, 15 postdoctoral researchers and 90 teaching assistants.

11% 17% 39% 33%

Professor Associate Professor Assistant Professor Instructors

Note: All professors are holders of PhD degree

BUILDING NATIONAL FACULTY PIPELINE

NU is building national faculty for NU and other HEIs. It makes effort to attract highly qualified diaspora of faculty and researchers, including Bolashak graduates and other holders of international PhD degrees. Overall NU employs about 300 Bolashak graduates.

Through its own “Talap” scholarship program, the national “Bolashak” program and as well as new postdoctoral program NU supports the development of future faculty. NU also employs postdoc, PhD and Master students as part time teaching and research assistants.

ADMINISTRATION

Our young university has been growing at a rapid speed with the help of committed and talented administrative staff. NU gathered a team of committed professionals, including a substantial number with international academic and professional experience.

NU staff have various professional and career development opportunities, including pathways to move to academic programs.

Source: NU HR as of 10 May 2018
CAMPUS LIFE

With about 80% of students living on campus, students are active agents in shaping their social environment. Campus calendar is packed with events and activities.

Modern facilities at NU allow for a physical environment shielding from harsh weather conditions. NU puts emphasis for emotional well-being by providing counseling services.

Students can choose to join a wide range of clubs and organizations that suit their interests. These clubs are related to academic courses, research projects, entertainment and media production, performing arts, sports and more.

Student organizations are powerful tools for connecting students both within university and globally. Local branches of international students organizations, such as SPE, ACM, AI-ChE, IEEE, SIAM, ISPOR enable them to bond with peers from around the world and benchmark themselves.

Some student initiatives have reached out to local community. NU students organize sport tournaments, debate contests, choir and orchestra concerts and interesting guest lectures. Charity activities organized by students involve the entire NU community to help children from socially vulnerable families and children with disabilities.

Besides fundraising activities, students teach children classes in weekly Sunday School.

Many NU students volunteer at various international and national events in Astana, such as Congress of World and Traditional Religions, Astana Economic Forum, Boxing World Cup and many more.

Source: NU Student Affairs as of 15 February 2018
CORE VALUES

• Embracing diversity
• Equal access to education
• Merit-based institution
• Integrity
• Professionalism and high ethical principles
• Transparency and openness
STRATEGIC PARTNERS

Supporting NU’s institutional and academic development:

• Cambridge University (UK)
• Colorado School of Mines (USA)
  • Duke University (USA)
• National University of Singapore (Singapore)
• University College London (UK) (2010-2015)
  • University of Pennsylvania (USA)
  • University of Pittsburgh (USA)
• University of Pittsburgh Medical Center (USA)
  • University of Wisconsin-Madison (USA)
• Lawrence Berkeley National Laboratory (USA)
INTEGRATED ACADEMIC HEALTHCARE SYSTEM

NU has laid the foundations for creating a vibrant academic healthcare system. The goal is to advance healthcare in Kazakhstan through the integration of teaching, research and clinical care. This integration will yield innumerable benefits by lifting the standards of patient centered healthcare at NU hospitals. NU’s academic healthcare system comprises of the School of Medicine (SOM), Center for Life Sciences (CLS) and University Medical Center (UMC).

**Academic healthcare system has the following objectives:**

- Educate and form world-class professionals: the next generation of clinicians, healthcare professionals, as well as translational and clinical physician-scientists;
- Create breakthroughs in clinical diagnosis and treatment;
- Improve quality of care and propel advances in cost-effective care;
- Draw on and analyze clinical information to improve care;
- Provide an economic engine for growth locally, nationally and regionally;
- Collaborate with medical schools and medical centers in Kazakhstan to share NU’s experience in order to reform medical education programs and develop new patient pathways and protocols.
TEACHING AND RESEARCH: SCHOOL OF MEDICINE

Four years since its establishment SOM has grown significantly. Together with its strategic partner University of Pittsburg School of Medicine it has developed an integrated research program in biomedicine and health, and established a supportive and stimulating academic environment. The academic portfolio of the school has expanded to four programs, and now includes undergraduate and graduate programs.

Students of Doctor of Medicine (MD) program are exposed to clinical practice from the first year, and acquire clinical skills prior to their clerkship and internship practice. SOM is also proud of its students who are involved in research projects, publish in international peer reviewed journals and present their findings in global conferences. In addition SOM has established its Masters Program in Public Health and Bachelor degree program in Nursing.

RESEARCH: CENTER FOR LIFE SCIENCES

CLS under the National Laboratory Astana endeavors to contribute to a better quality of life, health and longevity through practical application of cutting-edge research achievements.

In 2018 CLS started production of the first functional food product synbiotic “NӘR”. CLS’s four priority research areas are:

- Genomics and personalized medicine
- Regenerative medicine and artificial organs
- Biomedical engineering, innovative cell technologies and cell therapies
- Translational medicine, healthy aging and global health.

Researchers from the School of Science and Technology will be brought into the research efforts.

CLINICAL SERVICES: UNIVERSITY MEDICAL CENTER

UMC operates four hospitals, three of which are internationally accredited (JCI) so that they can serve as modern teaching hospitals:

- National Research Center for Maternal and Child Health (JCI in 2015);
- Republican Children’s Rehabilitation Center (JCI in 2014);
- Republican Diagnostic Center (JCI in 2014);
- National Research Center for Oncology and Transplantation (NRCOT).

UMC works in close collaboration with its strategic partner University of Pittsburgh Medical Center and international specialists to develop modern protocols for diagnosis and treatment of rare and severe forms of diseases.

UMC physicians are increasingly involved in research projects. For example, a joint paper with SOM faculty was published in the Lancet Global Health Journal describing their multidisciplinary integrated approach to treat children with Cerebral Palsy, as a model to be used worldwide.

More about the UMC:
INNOVATION AND COMMERCIALIZATION OF RESEARCH

The goal of the Innovation Cluster is to build a vibrant eco-system that translates research outputs and interesting ideas hatched in classrooms into innovative commercial products.

So far, three elements of the cluster are in place: the Commercialization Office, Business Incubator and Technopark. A major infrastructure element - the science park Astana Business Campus (ABC) is under development.

**Astana Business Campus**

A key feature of ABC is to facilitate and promote for daily interaction between entrepreneurs, established firms, R&D teams, startups, as well as faculty, students, and professional business service providers for creating a “buzzing” innovation hub.

ABC has been tagged as a national project. Its territory is part of the special economic zone “Astana-Technopolis”, created by the Government to foster innovative development of Astana.

*More about ABC:*
INNOVATION AND COMMERCIALIZATION OF RESEARCH

ASTANA BUSINESS CAMPUS ECO-SYSTEM

ATTRACTIONAND NURTURING ENTREPRENEURIAL TALENT

NU has already become a magnet for talented faculty, students and researchers. Now NU focuses on nurturing entrepreneurial and innovation mindset; both inside and outside the university.

The ABC cluster offers training, seminars, master-classes and guest lectures to discuss digital electronics, video editing and animation, 3D modeling, internet marketing, technological and innovative entrepreneurship.

Hackathons, markethon and other competitions are organized in partnership with major national and international companies.

These events inside and outside NU, attract a growing number of actual and would-be start-ups, and provide networking opportunities for people of different professional backgrounds.

FINANCING SUPPORT

A seed funding facilities has been established, and angel financing facilities are under preparation. Successful projects will be presented to international venture capital networks. In addition, we are funding from the corporate sector to support innovative endeavours.
**Commercializing Research Output**

The Commercialization Office helps projects with high commercial potential to reach the next stages of development, prototype creation, patenting, or pilot production, and management of intellectual property rights and entering the market.

The Office has a unique expertise in IP management in Kazakhstan and provides relevant services such as patent search, trademark registration and more.

Since 2012 more than 20 projects were financed for commercialization, and as a result more than 60 applications for IP documents were filed and more than 35 patents received. As of now, two license agreements were signed and three companies were created.

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**Incubating Ideas**

The Business Incubator aims to support original business ideas and innovative start-up projects at an early stage by providing active business guidance and specialized professional advice.

The Business Incubator runs two major programs: ABC Incubation and ABC Quick Start Acceleration. The programs help participants to form teams, receive business education, guidance and professional support, as well as access to technology for prototyping. Further, participants have opportunity to scale the project, attract investments and be placed in the Technopark.

16 projects graduated from the ABC Quick Start Acceleration Program in 2016-2017, and 8 projects are expected to complete in 2018.

*More about the Incubation programs:* [QR Code]

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**NU’S INVESTMENT IN NEW COMPANIES**

HeartStitch is an innovative suture-based system to provide minimally invasive suture repair of structural heart defects and other vascular structures.

*More about the startup:* [QR Code]
INNOVATION AND COMMERCIALIZATION OF RESEARCH

INSTITUTE OF BATTERIES
Development of new types of batteries

R&D ENGINEERING
Innovative technologies in construction, energy and agriculture

ECOSTANDART.KZ
Technology for obtaining a biological preparation and cleaning oil-polluted soil

OPTIMIZATION OF TECHNOLOGICAL PROCESSES
IT solutions for technological process optimization, assessment of energy efficiency

MICROREAD TECHNOLOGY KAZAKHSTAN
Complex genetic analysis services and test systems

COMPUTER VISION TECHNOLOGY
Software for traffic recording with computer vision and machine learning

INFORMATIX
Complex solutions in the field of information and telecommunication systems

TECHNOPARK
The Technopark houses facilities to carry out research, prototyping and pilot production. Facilities include:

• Fab Lab
• Media Lab
• Prototyping Center
• Analytical Lab
• Biotech Lab
• Renewable Energy Test Site

Incubation Results*

AE LAB
development of monitoring system of dry transformers operation

EGISTIK
Geoinformation System based service for allocating geographic coordinates for precise farming

KUNDE
Social Cafe- café for training and employment of disabled people

IZZI
online booking service for small and medium enterprises

SMART MONKEY
set of edutainment toys by subscription

* Examples of companies created by the Commercialization Office, residents of the Technopark, and graduates of the ABC Quick Start Acceleration Program.
ENGAGEMENT WITH GOVERNMENT AND PUBLIC INSTITUTIONS

We have expanded our collaboration with government, industry, educational institutions and public organizations to support implementation of national initiatives and programs, and to promote technology and innovation. These partnerships enable us to further increase contribution towards achievement of national goals. As the leading research university in the country, NU research provides engineering solutions to industry and provides consulting services to the government agencies in the areas of its expertise.

The School of Science and Technology (SST) acts as a key advisor to government in preparing and implementing the “Digital Kazakhstan” program. At the request of the Office of the Prime Minister, SST organized weekly seminars for senior Government officials and national companies such as Kazpost, Kazakhtelecom, Zerde. This training increased understanding of data science and built awareness of key concepts and applications in the public sector.

The School of Medicine (SOM) serves as strategic advisor to the Ministry of Healthcare and the six national medical universities. This partnership was established to modernize medical education, share best practice and translate SOM’s experience. SOM together with the Graduate School of Education (GSE) has trained more than 70 senior leaders of medical universities. Further, the 6 medical universities have also adopted SOM’s model of partnering with an international university.
WORKING WITH INDUSTRY

NU’s faculty and researchers are involved in providing solutions for the technological problems of the industry and the real sector of the economy of Kazakhstan. Research and engineering projects have been carried out for major companies such as Shell, Samruk-Energo, Karachaganak Petroleum Operating B.V., Petrofac and others.

The Graduate School of Public Policy has been conducting a range of professional development seminars for civil servants in areas such as leadership development for the Corps A, essentials of policy development, applying behavioral insights to public policy, sustainable development and urban planning, workplace environment and motivation and other.

The Graduate School of Business through its executive education programs has trained nearly 600 business professionals from 8 countries in entrepreneurship, finance, marketing, big data, leadership and change management.

For the last five years, GSB has also conducted business skills development programs for over 2500 SME owners and executives.

COOPERATING WITH INTERNATIONAL ORGANIZATIONS, BUSINESS ASSOCIATIONS AND ACADEMIA

NU increasingly hosts workshops and conferences with ADB, IMF, OECD, UNDP, World Bank, industry and business associations, as well as other international academic conferences. NU has about 100 active MoUs with other Kazkahstani and international universities and organizations.

COLLABORATION WITH NAZARBAYEV INTELLECTUAL SCHOOLS (NIS)

NU’s sister organization NIS leads secondary education reform in Kazakhstan. GSE works with NIS in the area of educational research, teachers’ professional development and supports NIS in the implementation of national curriculum reform.

More than 150 teachers have enrolled in Master’s programs in Education Leadership and Multilingual Education at GSE since 2013.

More than 100 NIS teachers participated in GSE’s professional development programs for pedagogical theory and practical teaching strategies. Furthermore, 140 subject teachers underwent training and laboratory works at SST in 2017.

Starting from 2018, 200 NIS students will enroll for a one-week summer camp, where they will participate in research projects in various STEM disciplines.
FUTURE DIRECTIONS
Designing for a student population of 8000 by 2025
NU plans to double its student population by 2025. As NU enters this new phase of development we need to ensure that faculty, staff, facilities and general infrastructure keep pace with the growth while, of course, preserving and enhancing continuity and quality.

Expanding the postdoctoral community to accelerate the emergence of a research culture
NU is building a dynamic postdoctoral community in order to jumpstart the development of a strong research culture. Postdoctoral researchers will serve as role models for students and support faculty research. We expect that in due course this postdoctoral model will be introduced in other universities of Kazakhstan.

Internationalization of the student body
A diverse and internationalized student body is one of NU’s priorities to advance its global profile. NU will increase diversity by attracting a larger number of international students. NU students compete in a globalized world, and exposure to various cultures and backgrounds enables them to develop intercultural experience essential for global leadership.

Creation of a startup culture
NU will develop a vibrant innovation and entrepreneurial culture by promoting cross-campus collaboration among students, faculty and postdoctoral researchers of all schools and disciplines, as well as collaboration with peers outside NU.

Strengthening link with industry
NU will intensify partnerships with the industry to advance research and innovation activities by exploiting synergies of research and technological capabilities. NU faculty and researchers will increasingly contribute to solve pressing industry challenges, at the same time companies will be able to tap our pool of talented students.

Contributing to Kazakhstan’s sports medicine and wellness
NU will explore support to high performing athletes through sports medicine, biokinetics and nutrition; and promote general wellness of population through physical activities in order to prevent illness and promote healthy aging.

Gaining international recognition
NU will continue strengthening its reputation in the global education arena, while serving the citizens and economy of Kazakhstan, as it seeks to diversify its economy to achieve the goals of the Strategy 2050.
<table>
<thead>
<tr>
<th>Year</th>
<th>Key Milestones</th>
</tr>
</thead>
</table>
| 2006 | **MARCH**
      | Announcement by the President of the intent to create a world class university (annual address to the nation) |
| 2009 | **FALL**
      | Appointment of project team to establish the university, Creation of JSC “New University of Astana” |
| 2010 | **JUNE**
      | Opening ceremony of Nazarbayev University |
      | **SEPTEMBER**
      | Start of the Foundation program |
      | Opening of Research Centers – Center for Energy Research and Center for Life Sciences |
| 2011 | **JUNE**
      | Signing of the Law “On the status of Nazarbayev University, Nazarbayev intellectual schools” and “Nazarbayev Fund” |
      | **AUGUST**
      | Opening of undergraduate schools |
| 2012 | **FALL**
      | First research publication under Nazarbayev University name |
      | **MARCH**
      | First JCI accreditation of a National Medical Holding hospital |
      | **FALL**
      | Opening of the Graduate School of Public Policy and the Graduate School of Education |
      | **FALL**
      | First medical research conference at Nazarbayev University |
2013

**SPRING**
Launch of Executive MBA program at the Graduate School of Business
Approval of Nazarbayev University Strategy for 2013-2020 by the Supreme Board of Trustees

**MAY**
First Oxford University Press publication by NU “Kazakhstan 2050”

**JULY**
Opening of the Pilot Technopark

2014

**MARCH**
Establishment of the National Laboratory Astana

**JUNE**
First Graduation Ceremony with participation of the President of the Republic of Kazakhstan

2015

**AUGUST**
Opening of the School of Medicine

**FALL**
Establishment of the University Medical Center with three of the former National Medical Holding hospitals

**DECEMBER**
“Research University” status

2016

**SEPTEMBER**
Launch of the ABC Quick Start Acceleration Program

**OCTOBER**
First PhD Defense (GSE)
Launch of the institutional self-evaluation exercise

2017

**APRIL**
Launch of the Asian University Alliance

**JUNE**
Commencement of the first PhD graduates

**AUGUST**
EUA’s independent external evaluation of NU is published

**SEPTEMBER**
Opening of School of the Mining and Geosciences
Opening of GSPP’s PhD program in Public Policy
Opening of the Zero Year program for graduate students

More about NU activities in 2017:

EUA - European University Association
Kazakhstan is the ninth largest country in the world in terms of territory and is endowed with abundant natural resources. Since independence over 25 years ago, the country has transformed itself into an upper middle-income country with a dynamic market-oriented economy, where more than 120 ethnicities peacefully live together.

In 1997 capital of the country was moved to the middle of the northern steppes. Now Astana has risen to an important industrial and cultural center of Kazakhstan with modern and futuristic architecture. Population of the city has reached more than 1 million people with a concentration of talented youth, creating a forward-looking vibe.
KAZAKHSTAN

1991
acquired independence after dissolution of the Soviet Union

18 MLN
population of the country

2.7 MLN
sq. kilometers area

TENGE
national currency

ASTANA

722
square kilometers area

>1 MLN
population of the city

31
years is the average age of Astana citizen

EXPO 2017
ENERGY OF THE FUTURE
took place in Astana