



NAZARBAYEV  
UNIVERSITY



**9 YEARS**





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## ABOUT US

Nazarbayev University (NU) was founded by the first President of the Republic of Kazakhstan, Nursultan Nazarbayev in 2010.

The University aims to be a world-class research university combining quality education, influential research and visionary innovation in service of the country and society. Throughout its history, NU has established values and standards to achieve educational and research excellence, meet both the local and global community's expanding needs and challenges, and prepare graduates ready for the future.

In December 2018, the Supreme Board of Trustees approved a new Strategy of Nazarbayev University for 2018-2030. The Strategy intends to prepare NU for change in the age of globalization and technological disruption while also building on the foundation already created.



*More about NU Strategy 2018-2030*

## VISION

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

## MISSION

To be a model for higher education reform and modern research; to contribute to the establishment of Nur-Sultan city (formerly Astana) as an international knowledge, innovation, and medical hub; and to prepare students for a world of increased volatility, uncertainty, complexity, and ambiguity.

## MANDATES

### Higher Education Reform Leadership

To imbue Kazakhstan's higher education system with global standards and systems, sharing of NU's experience and lessons learned with other universities in Kazakhstan is a high priority.

### Academic Excellence

To develop and maintain a culture of 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.

### A Model for Creating Healthcare Services

To establish an academic healthcare system that will serve as a model for healthcare services throughout Kazakhstan.

### Innovation and Translation of Research into Production

To become Kazakhstan's main driver of innovation, leading the way for Nur-Sultan city to become a regional innovation hub.



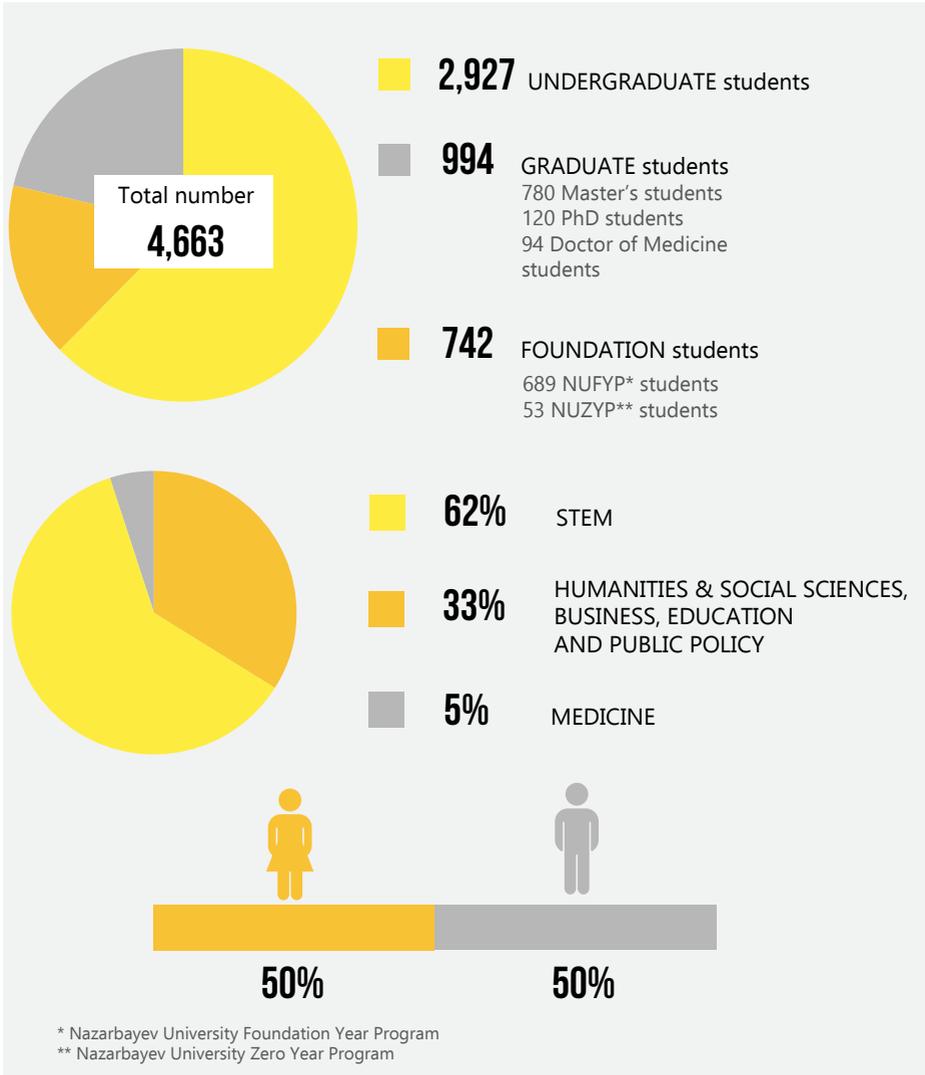
Photo by Rikhat Akizhanov

# NU COMMUNITY

## STUDENTS

Students are the top priority for NU. We strive to attract the most talented students from Kazakhstan and beyond. Merit-based admission and progression policies, academic integrity as DNA, and critical thinking skills have ensured the success of the graduates.

NU will continue to grow while of course preserving quality. NU intends to increase the student population to 8000 by 2025, with the goal of increasing the share of international students to 10%.



More about HPAIR 2019

## ASSOCIATION OF INTERNATIONAL STUDENTS

The Association of International Students (AIS) aims to facilitate the integration of international students into the NU community.

AIS represents the interests of all international students at NU through the organization of cultural activities including also cuisine and language.

The members of the Association take care of international students from the moment they arrive by offering pickup services, conducting campus and city tours, and offer academic and social support. Any student irrespective of nationality can join the Association.

## HARVARD PROJECT FOR ASIAN AND INTERNATIONAL RELATIONS

NU is honored to host The Harvard Project for Asian and International Relations (HPAIR) 2019 Asia Conference. The Conference will take place on August 16-20.

NU won the very competitive international bidding process, surpassing other high-quality submissions from universities in Singapore, Japan, China, Taiwan and India. The organizing committee for HPAIR Asia

Conference 2019 has been headed by the President of NU Student Government Leila Akhmetova.

HPAIR is the largest student conference in Asia under the auspices of Harvard University. The Conference was established as a platform for students and young professionals to debate the most important economic, political and social issues for countries of Asia and Pacific.

## FACULTY

NU places a high premium on faculty excellence and diversity. We are building an internationally competitive research-active faculty with many winners of awards and members of honorary and professional societies.

Our diverse faculty hails from 56 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 477 faculty (including 28 postdoctoral scholars) and 82 teaching assistants.

Faculty are recruited through an internationally competitive hiring process.

**~250 BOLASHAK\*  
GRADUATES**

**56 TALAP\*\*  
SCHOLARSHIP  
AWARDS**

**156 NU ALUMNI WORK  
AT NU & ITS  
ORGANIZATIONS**

\* Presidential scholarship established in 1993

\*\* NU graduate studies scholarship for staff

**11% PROFESSORS**

**18% ASSOCIATE  
PROFESSORS**

**34% ASSISTANT  
PROFESSORS**

**31% INSTRUCTORS**

**6% POSTDOCS**

75% international / 25% national  
34% female / 66% male

## ADMINISTRATIVE STAFF

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 transit to academic programs.



## HIGHER EDUCATION REFORM LEADERSHIP

NU has been a core element of Kazakhstan's broader education reform agenda. NU is a pilot 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.

In support of the higher education governance reform initiated by the Ministry of Education and Science, GSE has been training top executives of local universities to help them manage the

complex process of transformation in higher education.

In 2018 more than 270 participants, including 160 university top and mid-level managers and faculty took part in the GSE professional development courses in the framework of sharing NU's experience.

GSE provides training courses on the following topics: strategic planning and corporate governance, inclusive education, per capita financing, project and innovation management, and human resource management.

## SHARING NU'S EXPERIENCE

Dissemination of NU's experience and best practices to education stakeholders is one of the priority institutional tasks for NU. This is done through training programs, seminars, workshops, including the annual Eurasian Higher Education Leaders' Forum. In 2017 NU created a special Office for Experience Sharing.

### 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.

#### Conference on Academic Integrity

In May the 4th Annual International Conference on Academic Integrity, co-hosted by KAZGUU University and NU, attracted around 150 participants. The Conference aims to share best practices and promote recent developments in theoretical and empirical research on academic integrity.

#### Other Workshops

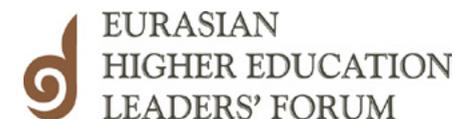
Special workshops on sharing experience are conducted by the Office of the Provost, Admissions Department, Department of Student Affairs, Career and Advising Center, and the School of Medicine.

#### Professional Associations

NU has 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.

## EURASIAN HIGHER EDUCATION LEADERS' FORUM (EHELF)

EHELF is creating a community of university leaders to transform education in the region. Typically, the Forum attracts about 500 participants both nationally and internationally.



### SINCE 2012 EHELF HAS ADDRESSED THE FOLLOWING TOPICS:



- 2019** Future Ready Graduates.
- 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.





## 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.

## GRADUATE ATTRIBUTES

- Possess an in-depth and sophisticated understanding of their domain of study;
- Be intellectually agile, curious, creative, and open-minded;
- Be thoughtful decision-makers who know how to involve others;
- Be entrepreneurial, self-propelling and able to create new opportunities;
- Be fluent and nuanced communicators across languages and cultures;
- Be cultured citizens of the world who embrace diversity;
- Demonstrate high personal integrity;
- Be prepared to take a leading role in the development of their country.

## BUILDING BLOCKS OF NU'S ACADEMIC EXCELLENCE

- **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.
- **Inclusion:** NU offers an environment for all qualified students irrespective of their special needs.

Since 2017 NU is engaged in the **European University Association (EUA) Institutional Evaluation Program (IEP)** to obtain an external, independent view of its progress. NU successfully completed the initial phase of the independent external evaluation and continues its efforts at self-improvement.

## PROGRAMS

Foundation Program (NUFYP)

Zero Year program for graduate students (NUZYP)

**20** Undergraduate Programs

**25** Master's Programs

**3** PhD Programs

## SCHOOLS

- SCHOOL OF ENGINEERING AND DIGITAL SCIENCES
- SCHOOL OF MEDICINE
- SCHOOL OF MINING AND GEOSCIENCES
- SCHOOL OF SCIENCES AND HUMANITIES
- GRADUATE SCHOOL OF BUSINESS
- GRADUATE SCHOOL OF EDUCATION
- GRADUATE SCHOOL OF PUBLIC POLICY

## OUR GRADUATES

NU has graduated students since 2015. The commencement of the fifth graduating cohort has taken place on May 31 - June 1, 2019.

### GRADUATION CLASS OF 2019

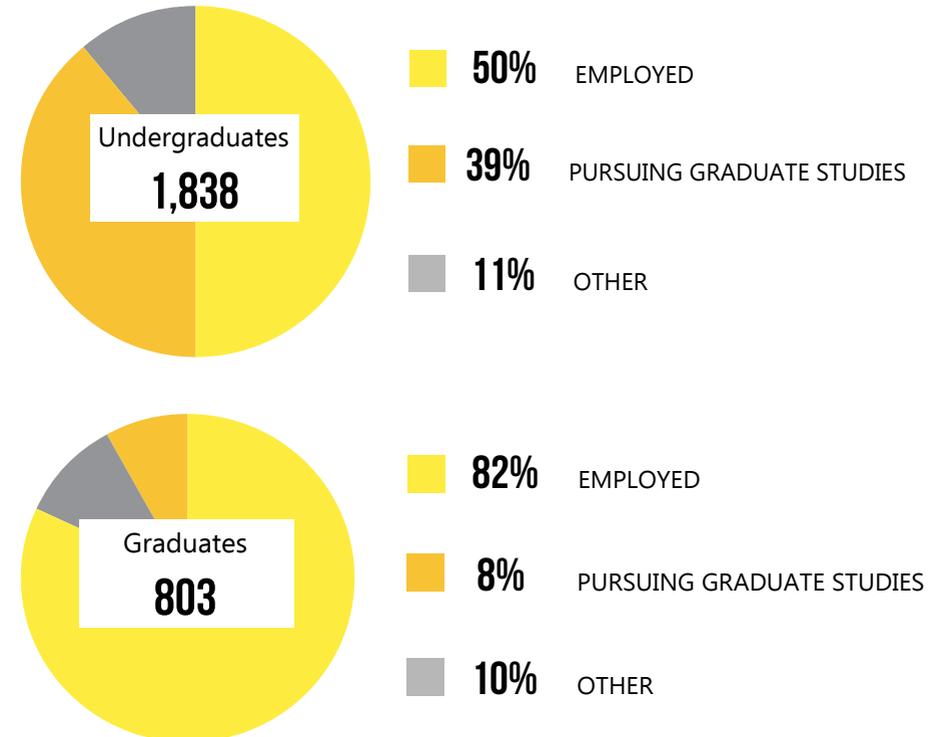
<b>963</b>	<b>565</b>	<b>398</b>
TOTAL	Undergraduates	Graduates

### TOTAL GRADUATES (2015-2019)

<b>3,604</b>	<b>2,403</b>	<b>1,201</b>
TOTAL	Undergraduates	Graduates

### 2015-2018 GRADUATES' STATUS

TOTAL OF 2,641 STUDENTS



## NU AMBASSADORS AROUND THE WORLD

Many of our graduates choose to continue their studies in top universities around the world. Examples of international destinations: Columbia University, Cornell University, Duke University, ETH Zurich, Harvard University, King Abdullah University of Science and Technology, Massachusetts Institute of Technology, National University of Singapore, Seoul National University,

Stanford University, The Hong Kong University of Science and Technology, Tokyo Institute of Technology, Tsinghua University, University College London, University of California, Berkeley, University of Cambridge, University of Oxford, University of Pennsylvania, University of Tsukuba, University of Warwick, University of Wisconsin-Madison and others.

### EMPLOYMENT

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

#### IN KAZAKHSTAN

- BI Group
- Deloitte
- Electrovoz Kurastyru Zauyty
- EY
- General Electric
- Information-Analytic Center
- KPMG
- Microsoft Kazakhstan
- Nazarbayev Intellectual Schools
- Nazarbayev University
- PwC
- Samruk-Kazyna
- Schlumberger
- Tengizchevroil
- Other

#### IN THE WORLD

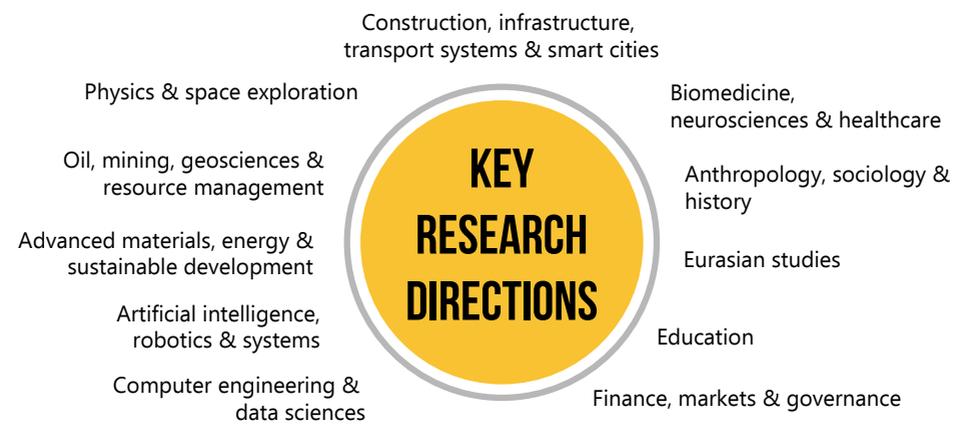
- Apple (USA)
- BMW (Germany)
- Booking.com (Netherlands)
- Center for Superfunctional Materials (South Korea)
- CG Accounting Corp (USA)
- Facebook (UK)
- Google Inc. (UK, USA)
- International Civil Aviation Organization (Canada)
- Imperial Digital Limited (New Zealand)
- Lenovo Group Limited (China)
- Locus AG Solutions (USA)
- Open Crypto Trust (Switzerland)
- Procter and Gamble (Poland, Russia)
- Schlumberger (Norway)
- SKC chemical materials company (South Korea)
- UNDP (Spain)
- Unilever (Russia)
- Other

## EMPLOYMENT OF BACHELOR GRADUATES BY INDUSTRIES

- 21% MANUFACTURING & PRODUCTION
- 21% FINANCE & CONSULTING
- 15% EDUCATION & SCIENCE
- 7% CONSTRUCTION
- 6% IT
- 4% PUBLIC SECTOR
- 2% ENERGY
- 2% HEALTHCARE
- 1% MARKETING & SALES
- 21% OTHER

## EMPLOYMENT OF MASTER AND PHD GRADUATES BY INDUSTRIES

- 43% EDUCATION & SCIENCE
- 12% MANUFACTURING & PRODUCTION
- 10% FINANCE
- 7% PUBLIC SECTOR
- 4% HEALTHCARE
- 2% CONSTRUCTION
- 2% IT
- 2% ENERGY
- 1% MARKETING & SALES
- 17% OTHER



# RESEARCH EXCELLENCE

NU is committed to achieving excellence in research, and to ensuring that research contributes to the socio-economic development of Kazakhstan and the region.

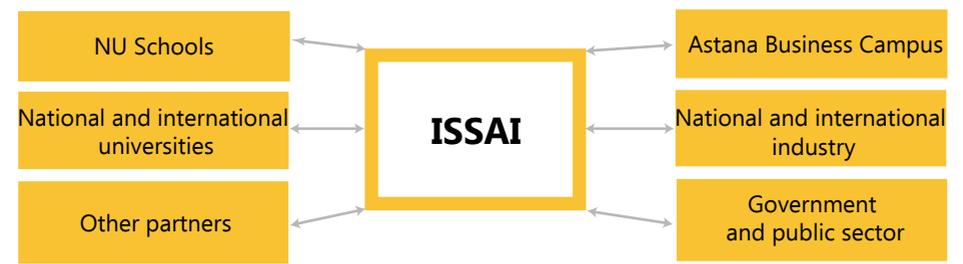
According to the NU Strategy 2030, we will continue to develop an enabling ecosystem to build research capacity to tackle global challenges in partnership with government, industry, research centers and other stakeholders.

Doctoral and postdoctoral programs are two rapidly developing elements of NU's education and research landscape. 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.

## INSTITUTE FOR SMART SYSTEMS AND ARTIFICIAL INTELLIGENCE (ISSAI)

NU conducts multiple research projects on AI and intelligent systems that are about to be scaled up. An ambitious plan for an Institute for Smart Systems and Artificial Intelligence (ISSAI) is under preparation.

The mission of ISSAI is to conduct interdisciplinary research on machine intelligence for solving real-world problems of industry and society. Particularly, it will address the issues of Smart Industry (Industry 4.0), Medicine and Healthcare, and Big Data and Machine Learning.



## LABORATORIES

A new laboratory complex at Block C4 was opened in 2018. The complex is a part of the research infrastructure of NU and has a total area of more than 18 000 sq.m. The complex includes 117 laboratories.

The research labs are allocated along 9 research clusters:

1. Space, Industry and Transportation Cluster;
2. Fundamental Science Cluster;
3. Electronic and Photonic Systems;
4. High Performance Computing, Networking and Cybersecurity Cluster;
5. Environmental and Energy Research;
6. Intelligence, Cognition and Robotics Cluster;
7. Cluster for Behavioral Science, Education, and Gender;
8. The Environment and Resource Efficiency Cluster;
9. Biology Cluster.

The research clusters are comprised of researchers and faculty members of different schools who conduct interdisciplinary research.



## RESEARCH ENGAGEMENT

We are building an institutional research culture starting with our undergraduate students. NU offers its students comprehensive research experience and exposure to research frontiers.

With support of our faculty and researchers, students participate in multidisciplinary projects and competitions, publish international research publications and aim to contribute to national and international discourse.



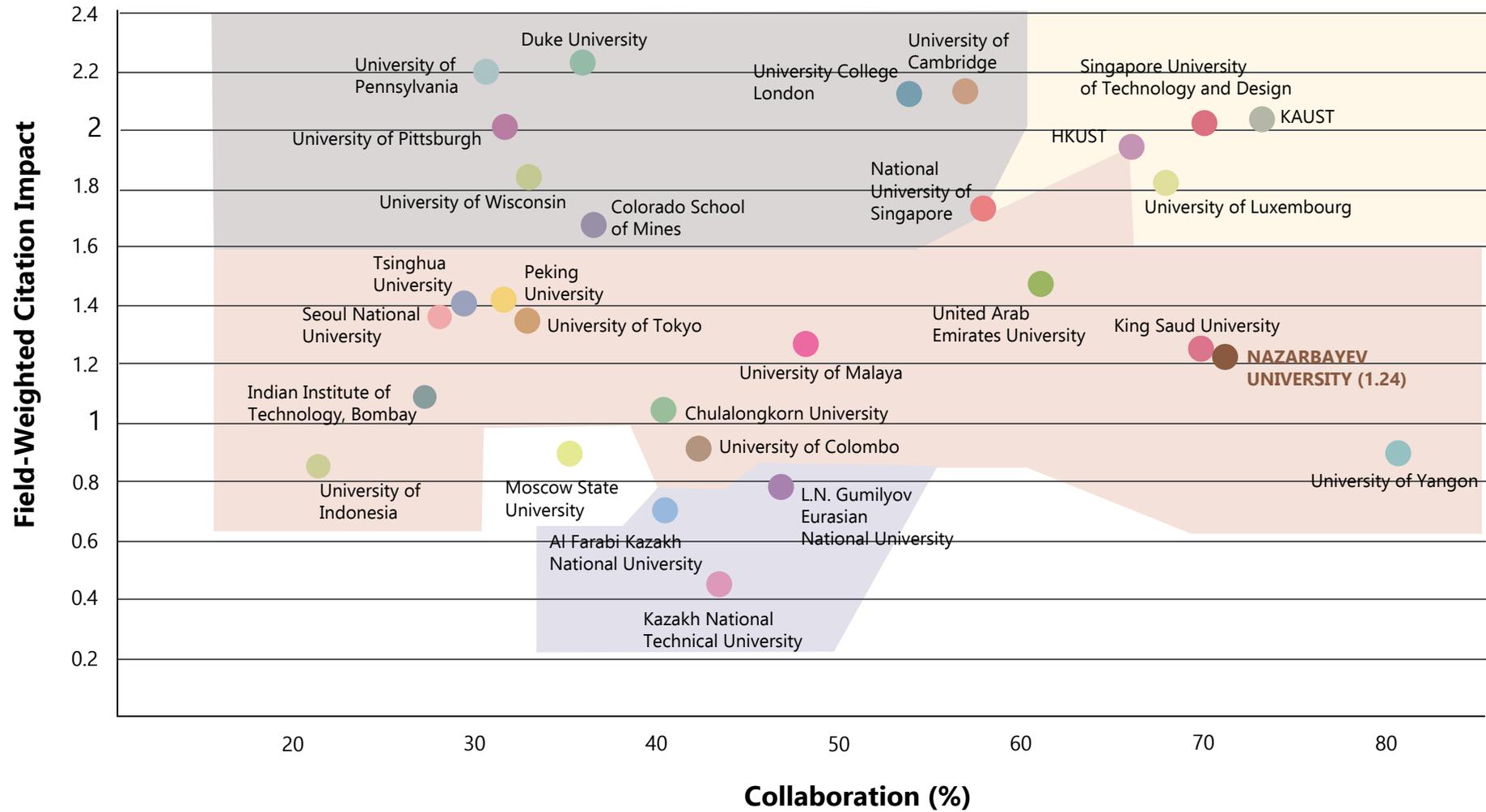
### INTERNATIONAL STUDENT RESEARCH COMPETITION

For the last 3 years NU student teams have taken part in iGEM (International Genetically Engineered Machine) competition – a prestigious international undergraduate competition in synthetic biology, where the goal is to develop a novel system utilizing genetically engineered organisms. In the 2018 competition team “NU\_Kazakhstan” was nominated for a standard track award – The Best Environment Project. The team was among the top five projects in this category, and received a Gold medal.

### REHABILITATION ROBOT

ReLive is an NU research start-up that focuses on the rehabilitation of stroke patients. ReLive includes equipment and software for reading and recognizing brain signals, a microcontroller and an exoskeleton of the upper limbs. The project was given the best digital solution award at the International exhibition Digital Health Astana. Upon invitation of UNICEF the research team took part at the 2019 world exhibition on assistive technology for children in Geneva. ReLive received a World Bank Grant and is developing plans for future expansion.

## NU PUBLICATIONS' IMPACT RELATIVE TO INTERNATIONAL CO-AUTHORSHIP SHARE, 2011-2019



- NU strategic partners
- Asian Universities Alliance members
- Fast developing universities
- Kazakhstani national universities



# INTEGRATED ACADEMIC HEALTHCARE SYSTEM

NU has established NU Medicine, a vibrant academic healthcare system based on international standards and developed in partnership with the University of Pittsburgh School of Medicine (UPSOM) and its Medical Center (UPMC). The goal is to advance healthcare in Kazakhstan through the integration of teaching, research and clinical care. This integration will yield innumerable benefits by providing state-of-the-art medical education and lifting the standards of patient-centered and family-centered healthcare at NU hospitals.

NU's academic healthcare system comprises 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 health care professionals: future generations of clinicians, nurses, public health specialists 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.

## SCHOOL OF MEDICINE

The School of Medicine together with its strategic partner University of Pittsburgh School of Medicine and by reaching out to other NU Schools 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 five programs, and now includes undergraduate program in nursing and five residency programs in internal medicine, surgery, obstetrics and gynaecology, pediatrics, and family medicine.

The Bachelor in Nursing degree introduces western-style nursing education to

Kazakhstan. Doctor of Medicine (MD) students 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 Masters Programs in Public Health (MPH) and Molecular Medicine (MMM). The first MD, MMM and Bachelor in Applied Nursing talents are graduating in 2019.

## CENTER FOR LIFE SCIENCES (CLS)

CLS under the National Laboratory Astana contributes to a better quality of life, health and longevity by translating cutting-edge research achievements into practical applications.

In 2018 CLS started the production of the metabiotic “Saumet” on the basis of the unique Kazakhstani strain of lactic acid bacteria *Lactobacillus rhamnosus* CLS17. “NƏR”, probiotic drink, spearheads new

generation of well-being products.

CLS focuses on four priority research areas:

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



## UNIVERSITY MEDICAL CENTER (UMC)

UMC operates three hospitals. All the hospitals are internationally accredited by the Joint Commission International (JCI) so that they can serve as modern teaching hospitals:

- National Research Center for Maternal and Child Health;
- Republican Children’s Rehabilitation Center;
- Republican Diagnostic Center.

UMC operates in close collaboration with its strategic partner UPMC and international specialists to develop modern protocols for diagnosis and treatment of rare and severe forms of diseases. UPMC provides strategic support in transforming UMC into a world-class hospital system.

UMC physicians are increasingly involved in research projects and publish in high impact factor journals like Lancet Global Health.

# INNOVATION AND COMMERCIALIZATION OF RESEARCH

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

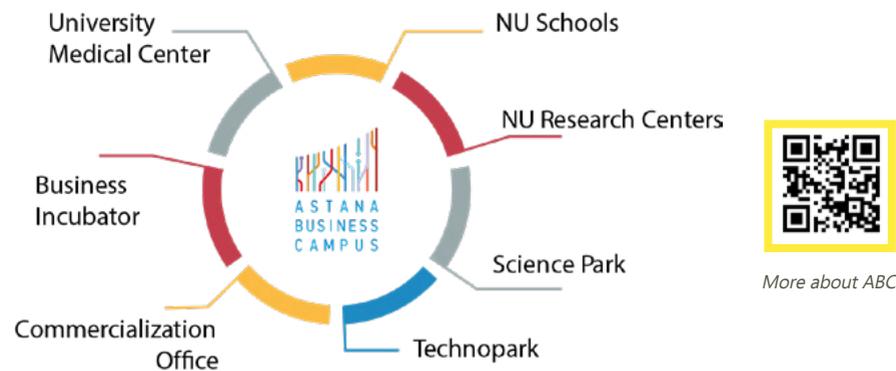
So far, three elements of the cluster are in place: **the Commercialization Office, Business Incubator, and Technopark**. A major infrastructure element - the science park Astana Business Campus (ABC) has started to take shape on NU’s campus but a major scaling up is planned.

## ASTANA BUSINESS CAMPUS

A key feature of ABC is to facilitate and promote 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 a part of “Astana-Technopolis” special economic zone, created by the Government to foster innovative development of Nur-Sultan city.

### ASTANA BUSINESS CAMPUS ECOSYSTEM



## FACILITIES

ABC provides facilities to young and old firms alike to assist in product design, prototyping and pilot production:

**Digital Creativity Lab** is the first coworking space in Nur-Sultan city for designers, digital artists, video-makers and photographers.

**Fab Lab** (Fabrication Laboratory) is a coworking laboratory with advanced equipment for digital production, which allows translating any idea into a finished product.

**Prototyping Center** provides equipment for designing, manufacturing, and modification of parts and mechanisms.

## ATTRACTING AND NURTURING ENTREPRENEURIAL TALENT

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

The ABC cluster offers training, seminars, master classes and guest lectures in a wide range of “new” activities such as digital electronics, video editing and animation, 3D modeling, internet marketing, technological and innovative entrepreneurship.

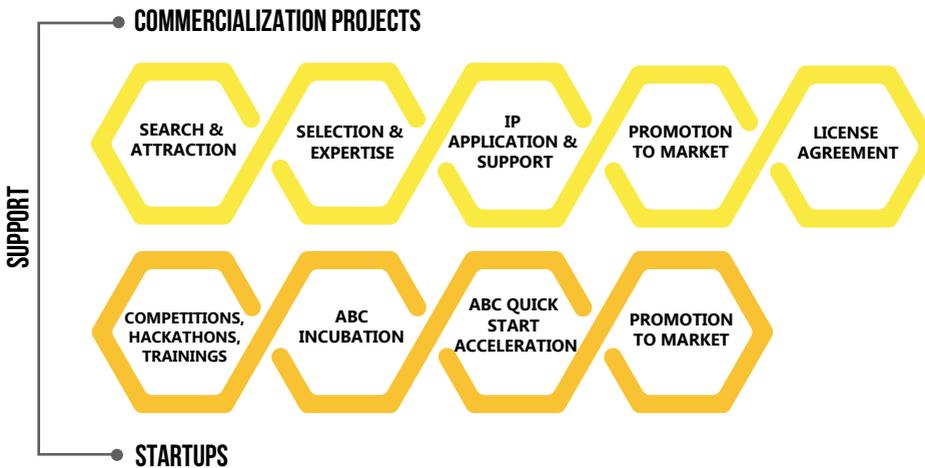
Hackathons, markeathons and other competitions are organized in partnership with major national and international companies.

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.

## 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.

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



## INCUBATING IDEAS

The Business Incubator supports 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.

Over the last two years NU hosted two Incubation and four Acceleration programs. Overall, 11 projects graduated from the ABC Incubation Program and 38 projects graduated from the ABC Quick Start Acceleration Program.

## PROJECTS

Some startups that graduated from ABC Incubation and ABC Quick Start programs have attracted outside investments.

### SMART SPRAYING SYSTEM

The founder of the agritech startup Smart Herbicide Spraying System (TOP) as a 3rd year student, Miras Sovetov has received 110 000 USD of investments from a Hong Kong Venture fund "Artesian" and been accepted to a Hong Kong hardware accelerator "Brinc". TOP is also the «Challenge for Innovation 2019» Award Winner.



TOP is a smart system for spraying agricultural areas with herbicides, which allows cost savings and productivity increase using computer vision technology and a conventional camera.

### EGISTIC

Agri-tech startup EGISTic, founded by NU researchers, is an online service, designed to make an effective management decision in crop production. Using EGISTic platform, farmers will be able to quickly monitor crop areas on space images to obtain information on the saturation for vegetation, soil moisture and vegetation health.



EGISTic has received investments of 300 000 USD for further development of the product. The founders also took part at the 2018 Transformers Summit in Cambridge, UK.

### A-PSORIN

A-psorin is non-hormonal antipsoriatic cosmetic gel developed by NU employees. A-psorin helps to get rid of the symptoms of psoriasis during exacerbation in a short period of time.



The project won 2nd place (800 000 KZT) at the 2018 National Innovation Contest "Qazaqstan Technology Forum". Sales have already started in Almaty. The team has sold more than 100 items to date.



## ENGAGEMENT

Our impact spans far beyond the boundaries of our campus. We have built strong relationships with the local community, industry, businesses and professionals through a wide range of partnerships, projects and events.

## GOVERNMENT

- The Graduate School of Public Policy (GSPP) jointly with the Academy of Public Administration developed a new training program for political appointees in the civil service and specialized program for Corps A civil servants;
- Sponsored by the Ministry of National Economy, the Graduate School of Business (GSB) and Duke Corporate Education have developed an executive program for SME owners and managers: each cohort constitutes up to 400 participants from all regions in Kazakhstan;
- GSPP offers advanced executive courses for public sector officials: participation of more than 400 professionals from ministries, local municipalities, Nur Otan party, Astana

International Financial Center (AIFC), “Samruk-Kazyna” group of companies, etc. Themes include leading change in civil service, crisis communications, principle-oriented leadership, investment promotion, transformation leadership;

- GSB leads the national research team on the GEM project (Global Entrepreneurship Monitor) in collaboration with Economic Research Institute of Kazakhstan;
- NU’s NAC Analytica provided data and analysis to the World Bank Country Economic Memorandum on Kazakhstan “Reversing Productivity Stagnation”;
- NU serves as one of the main advisors to the government’s “Digital Kazakhstan” program.

## INDUSTRY & BUSINESS

NU successfully collaborates with industry and business partners locally and internationally.

School of Mining and Geosciences (SMG) professors and students are engaged in a research project with the **Research and Development Engineering Center of the Eurasian Resources Group (ERG)**. The main scope of this project is 3D modeling of Ash and Iron content in Shubarkol coal deposit in Karagandy region for mine planning.

**Kazzinc**, a major producer of zinc with a notable extraction of copper, lead and precious metals in Kazakhstan, provides paid internship positions to 20 SMG

graduate students and subsequently recruits a number of them to permanent positions.

**Datamine, Micromine, Halliburton, and Schlumberger** companies have donated their software solutions for research and educational purposes.

**Schlumberger, Tengizchevroil, KazTransOil, Kazakhstan Aselsan Engineering, PSI group, ERG, KPMG, E&Y, Mars, BI-Group, Beeline** and other major companies cooperate with NU in the field of student professional development, internship, and on campus recruiting.

## ASTANA SCIENCE FESTIVAL

For the last two years, NU has hosted the Astana Science Festival organized jointly with the British Council, Science Foundation JSC and with the popular science magazine OYLA. The purpose of the festival is to popularize science and technology among young people.

The event's program included talks by finalists of the Science Stars schoolchildren's scientific competition and the FameLab international contest of young scientists, run in partnership with Chevron.

School and university students attended lectures on research ethics, studies of Kazakhstan's animal life and space studies. In addition, all visitors were invited to watch the film "The Most Unknown", which provided a breathtaking insight into the fundamentals of scientific discoveries.



## INTERNATIONAL ENGAGEMENT

Internationalization for NU goes beyond student and faculty mobility and covers large-scale activity related to the University's academic, research and innovation activities. The priorities for internationalization include strengthening strategic partnerships and research collaborations.

In January 2019 NU became a member of the **Council of Graduate Schools (CGS)** based in Washington, DC. NU is an International Member as a higher education institution that is significantly engaged in graduate education, research, and scholarship. Collaboration with the CGS provides opportunities to engage with an active community of institutions and organizations that support graduate education.

## STRATEGIC PARTNERS

supporting NU's institutional and academic development:

- Cambridge University (UK);
- Colorado School of Mines (USA);
- Duke University (USA);
- Lawrence Berkeley National Laboratory (USA);
- National University of Singapore (Singapore);
- Oak Ridge Associated Universities (USA);
- University of Pennsylvania (USA);
- University of Pittsburgh (USA);
- University of Pittsburgh Medical Center (USA);
- University of Wisconsin-Madison (USA).



2018 AUA Asia Deep Dive Program

## MEMBER OF GLOBAL AND REGIONAL ASSOCIATIONS:



International Association of Universities



Asian Universities Alliance



University Alliance of the Silk Road

**>700** NU STUDENTS HAVE HAD STUDY ABROAD EXPERIENCE SINCE 2013

**~300** INTERNATIONAL STUDENTS VISITED NU FOR CULTURAL SUMMER SCHOOLS SINCE 2015

**~100** NU STUDENTS HAVE ATTENDED CULTURAL SUMMER SCHOOLS ABROAD SINCE 2016

## ASIAN UNIVERSITIES ALLIANCE

NU is a founding member of the Asian Universities Alliance (AUA) along with fourteen Asian top universities.

Launched in 2017, AUA intends at increasing accessibility of educational resources, providing a platform for innovative collaboration, and increasing educational and research exchanges. As to faculty and student mobility, AUA established the AUA Staff Exchange Program and AUA Scholars Award for staff and faculty of AUA member universities.

AUA also sponsors a cultural immersion program for students of its member institutions. In July 2018 NU hosted the first Asia Deep Dive Program (ADDP). During two weeks the participants attended a series of specially tailored classes on Kazakh language, culture, and history of Kazakhstan and Central Asia. Moreover, they were able to explore Nur-Sultan city and experience field trips to the southern part of Kazakhstan to take in the local culture, diversity of landscapes, and discover the history of the ancient Silk Road.



## A LIVING CAMPUS

### STUDENT ORGANIZATIONS

NU hosts more than 200 professional student clubs, which makes NU campus packed with events and activities throughout the year. One of the largest events at NU is a club fair. It features the most active clubs of the university and introduces students a way to get involved on campus.

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.

### STUDENT GOVERNMENT

The NU Student Government is a student self-governance system representing the interests of students to the administration of the University and the global community. Students' self-governance is a proactive and independent joint activity of students aimed at solving issues related to academic and extracurricular activities.

### VOLUNTEERS

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



Source: NU Student Affairs as of February 26, 2019

# FACILITIES

Modern facilities at NU allow for a physical environment shielded from the harsh weather conditions.

## RESIDENTIAL LIFE

8 residential buildings at NU accommodate over 75% of students. Many daily-life facilities, such as grocery store, barbershop, laundry, library, and banks are available within the campus.

## LIBRARY 24/7

The NU library has become even more accessible and comfortable. New halls and rooms with a total area of 10 000 sq.m. offer superior conditions for the NU community. The updated library includes new computer rooms, multimedia rooms, classrooms for group activities and individual study, equipment for inclusive education, conference rooms, an audio-visual studio, a visual communications room and much more.

## ON-CAMPUS MEDICAL SERVICES

The University Health Center (UHC) opened on campus in January 2018. It provides medical services to students, faculty and staff.

## SPORTS AND ATHLETIC CENTERS

The Sports Centers support students in their athletic endeavors providing a range of opportunities to do sports for recreation, for intramural and intercollegiate competition at various skill-levels – from learning a new kind of sport to fulfilling Olympic ambitions. NU is increasingly teaming up with Kazakhstan’s various sports federations to promote a science approach to sports.

Source: NU Student Affairs as of February 26, 2019



# KEY MILESTONES

## MARCH

Announcement by the President of the intent to create a world class university (annual address to the nation)

2006

## FALL

Appointment of project team to establish the university. Creation of "New University of Astana" JSC

2009

## 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

2010

## JUNE

Signing of the Law "On the status of "Nazarbayev University, "Nazarbayev Intellectual schools" and "Nazarbayev Fund"

## AUGUST

Opening of undergraduate schools

## FALL

First research publication under Nazarbayev University name;  
First medical research conference at Nazarbayev University

2011

## 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

2012

## 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

2013

2019

## MAY

Opening of the Athletic Center;  
Fifth Graduation Ceremony (Commencement);  
First Doctors of Medicine and Bachelors in Applied Nursing

## AUGUST

Restructuring of School of Engineering, School of Science and Technology, and School of Humanities and Social Sciences into two new schools: School of Engineering and Digital Sciences and School of Sciences and Humanities

2018

## AUGUST

Introduction of the Undergraduate Core Curriculum Framework (UCCF)

## DECEMBER

Opening of Laboratory complex C4;  
Approval of Nazarbayev University Strategy for 2018-2030 by the Supreme Board of Trustees

2017

## APRIL

Launch of the Asian Universities Alliance

## JUNE

Commencement of the first PhD graduates

## AUGUST

EUA's independent external evaluation of NU is published

## SEPTEMBER

Opening of School of Mining and Geosciences;  
Opening of GSPP's PhD program in Public Policy;  
Opening of the Zero Year program for graduate students

2016

## SEPTEMBER

Launch of the ABC Quick Start Acceleration Program

## OCTOBER

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

2015

## MARCH

Establishment of the National Laboratory Astana

## JUNE

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

## AUGUST

Opening of the School of Medicine

## FALL

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

2014

## MAY

First Oxford University Press publication by NU "Kazakhstan -2050"

## JULY

Opening of the Pilot Technopark



# KAZAKHSTAN



Kazakhstan is the ninth largest country in the world in terms of territory and is endowed with abundant natural resources. Since its 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 the capital of the country was moved to the middle of the northern steppes. The capital was named Astana and renamed Nur-Sultan city in 2019. Now Nur-Sultan city has risen to become an important industrial and cultural center of Kazakhstan with a modern and even futuristic architecture. The population of the city has reached more than 1 million people with a concentration of talented youth, creating a forward-looking vibe.

**1991**  
acquired  
independence after  
dissolution of the  
Soviet Union

**18 MLN**  
population of the  
country

**2.7 MLN**  
sq. kilometers area

**TENGE**  
national currency

## NUR-SULTAN CITY



**1998**  
the capital renamed  
to Astana

**>1 MLN**  
population of the  
city

**722**  
sq. kilometers area

**2019**  
Astana renamed  
to Nur-Sultan

# 2019

## JUNE

**NAZARBAYEV UNIVERSITY**

**OFFICE OF THE PRESIDENT**

**5TH EDITION**

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