



NAZARBAYEV UNIVERSITY

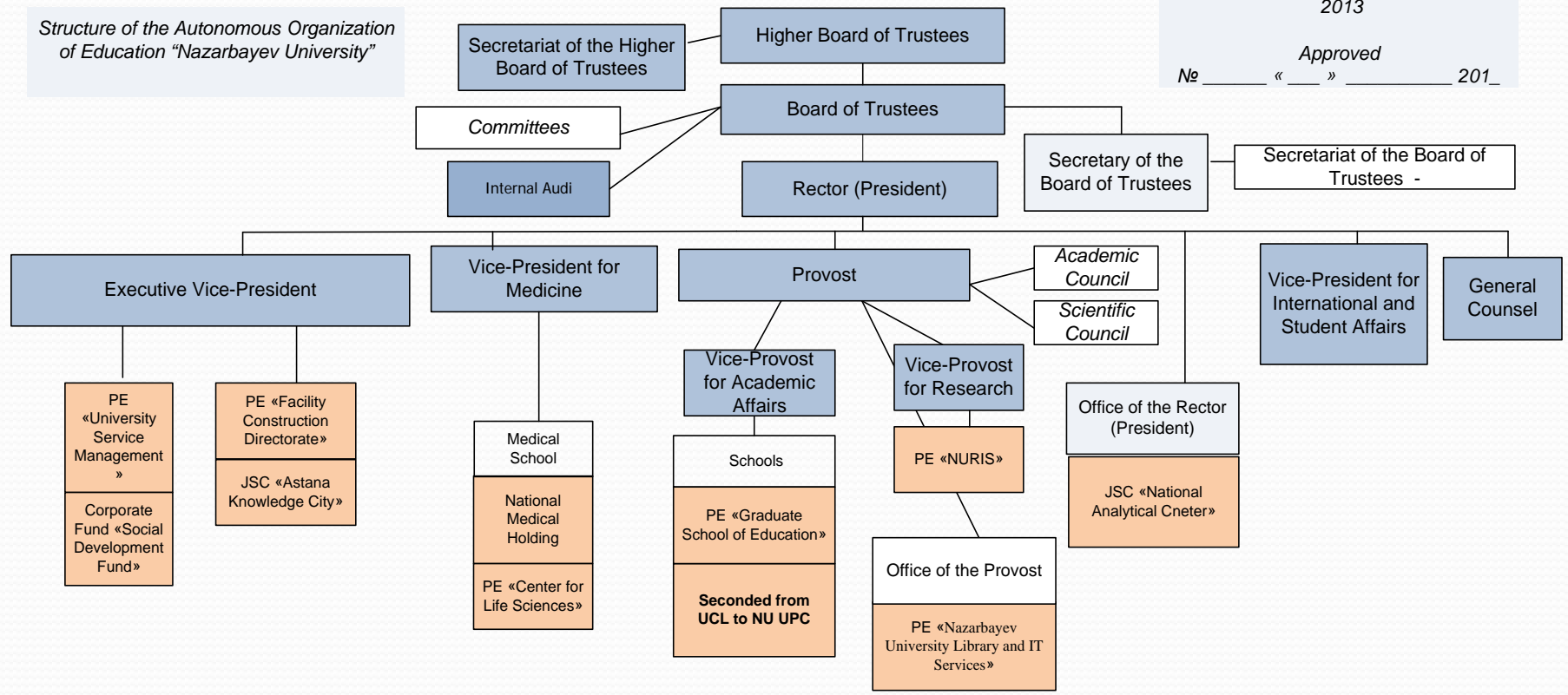


NU Mission

- To advance the development of education and research in the Republic of Kazakhstan, as well as to contribute to Astana's aspiration to become Eurasia's research and educational center.

Structure of the Autonomous Organization of Education "Nazarbayev University"

2013
Approved
№ _____ « _____ » _____ 201_



Guiding principles:

- **Autonomy and Academic Freedom**

ensure independence and collegiality in management and decision making based on democratic principles and personal responsibility of each individual involved; guarantee academic freedom of teachers and researchers within their research, and educational activities;

- **Leadership**

aspire to leadership in education, research and medicine, as well as all other fields of activity;

- **Integration of the education, science and industry**

reach complete integration of the education, science and industry;

- **Innovation Focus**

constantly strive to employ cutting edge methods and technologies, readiness to utilize new knowledge and information;

- **NU innovative partnership model**

NU developmental model based on establishing international partnerships with leading universities and research centers around world.

Why NU is different than other universities in Kazakhstan?

- NU activity is regulated by the Law of the Republic of Kazakhstan “On the status of “Nazarbayev University”, “Nazarbayev Intellectual Schools” and “Nazarbayev Fund””

Activities of kazakhstani unviersities are regulated by the Law of the Republic of Kazakhstan “On education”

In accordance with the Law:

- **NU – is the autonomous organization of education**

What does it mean?

- **Accountability to the Supreme Board of Trustees(SBoT) and Board of Trustees(BoT) of the University**
All other universities are accountable to the Ministry of education and science of the Republic of Kazakhstan (MoES RK)
- **Educational programs, admission process and selection of students are approved by NU**
Programs of other universities in Kazakhstan strictly correspond to the current general standards set by MoES RK
- **State certification of the University is not conducted**
All universitites have a mandatory state certification

«Bolashak» International Scholarship of the President of the Republic of Kazakhstan



- Established in 1993 by the President of the Republic of Kazakhstan.
- Up to 3000 scholarships awarded annually

At the moment over **200** «Bolashak» graduates currently work at Nazarbayev University

NU STRATEGIC PARTNERS:

- **University College London (UK)** - School of Engineering and Foundation
- **Carnegie Mellon University (USA)** - School of Science and Technology
- **University of Pennsylvania** - Center for Educational Policy
- **Duke University, Fuqua Business School (USA)** - Graduate School of Business
- **University Wisconsin-Madison (USA)** - School of Humanities and Social Sciences
- **National University of Singapore, Lee Kuan Yew School of Public Policy (Singapore)** - Graduate School of Public Policy
- **University of Cambridge (UK), University of Pennsylvania (USA)** - Graduate School of Education
- **Lawrence Berkley National Laboratory (USA)** - Center for Energy Research
- **University Pittsburgh Medical Center (USA)** - Center of Life Sciences
- **Argonne National Laboratory (USA)** - Interdisciplinary Instrumentation Center



University Preparatory Certificate:

A One-Year Foundation Programme delivered at Nazarbayev University
in collaboration with University College London

4 Key Elements

1. Academic English
2. Research Study Skills:
 - Science and Society or
 - Academic Research Methods
3. Subject 1
4. Subject 2

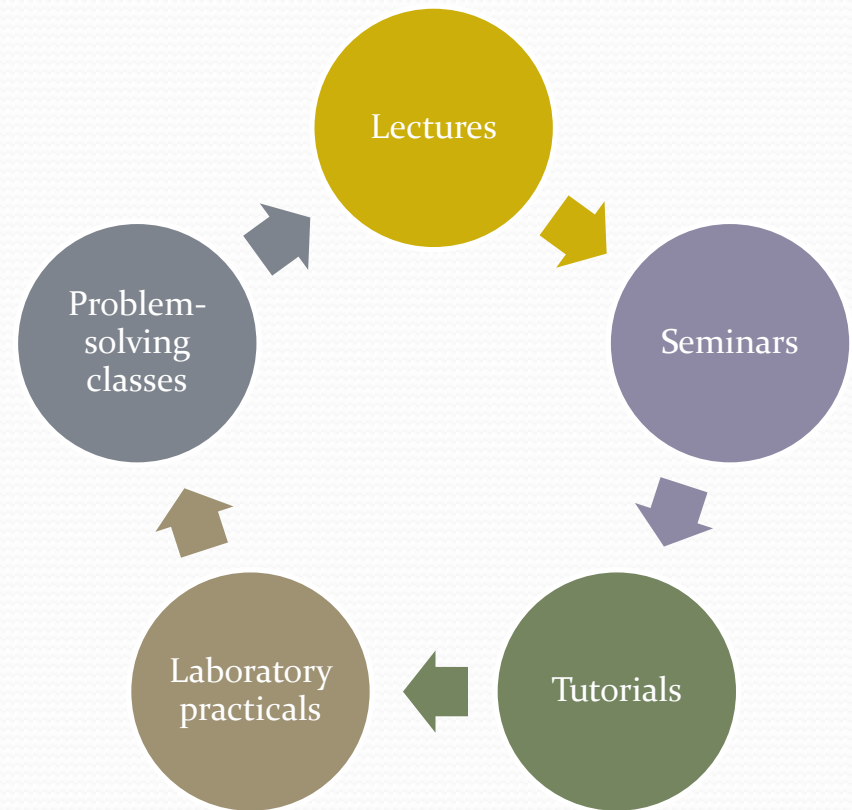
Subject Combinations:

Mathematics & Physics

Biology & Chemistry

International Relations & Economics

How do we teach?



School of Engineering

Academic programs

Chemical
engineering



Mechanical
engineering

Civil engineering

Electrical
engineering

School of Science and Technology

Academic programs

Biomedical
Sciences

Computational
Science

Biology

Mathematics



Chemistry

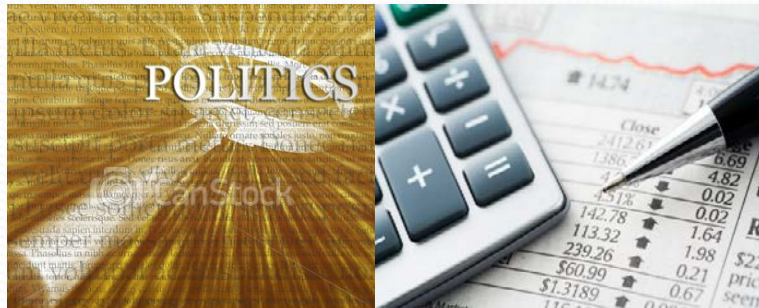
Physics

Robotics and
Mechatronics

School of Humanities and Social Sciences

Academic programs

**Political
Science/IR**



Anthropology

**World
Languages
and Literature**



History

Economics

Sociology

Undergraduate Schools of Nazarbayev University

Schools	Partner University	Number of the faculty	Number of students	Specialties
School of Engineering	University College London	28	286	Chemical engineering; Civil engineering; Mechanical engineering
School of Science and Technology	iCarnegie Inc. (Carnegie Mellon University)	52	356	Mathematics; Chemistry; Robotics; Physics; Computer Technology; Biology; Pre-medicine program
School of Humanities and Social Sciences	University of Wisconsin Madison	55	299	Economics; Sociology; Political Sciences and International relations History; Anthropology Languages and literature
Foundation program	University College London	65	508	
Total number:		200	1453	

Graduate Schools

- **Graduate School of Public Policy** in partnership with National University of Singapore, Lee Kuan Yew School of Public Policy;
- **Graduate School of Business** in partnership with Duke University, Fuqua School of Business, USA;
- **Graduate School of Education** in partnership with University of Cambridge (UK) and University of Pennsylvania (USA).



NU Research Centers

NURIS (Nazarbayev University Research Innovation System)

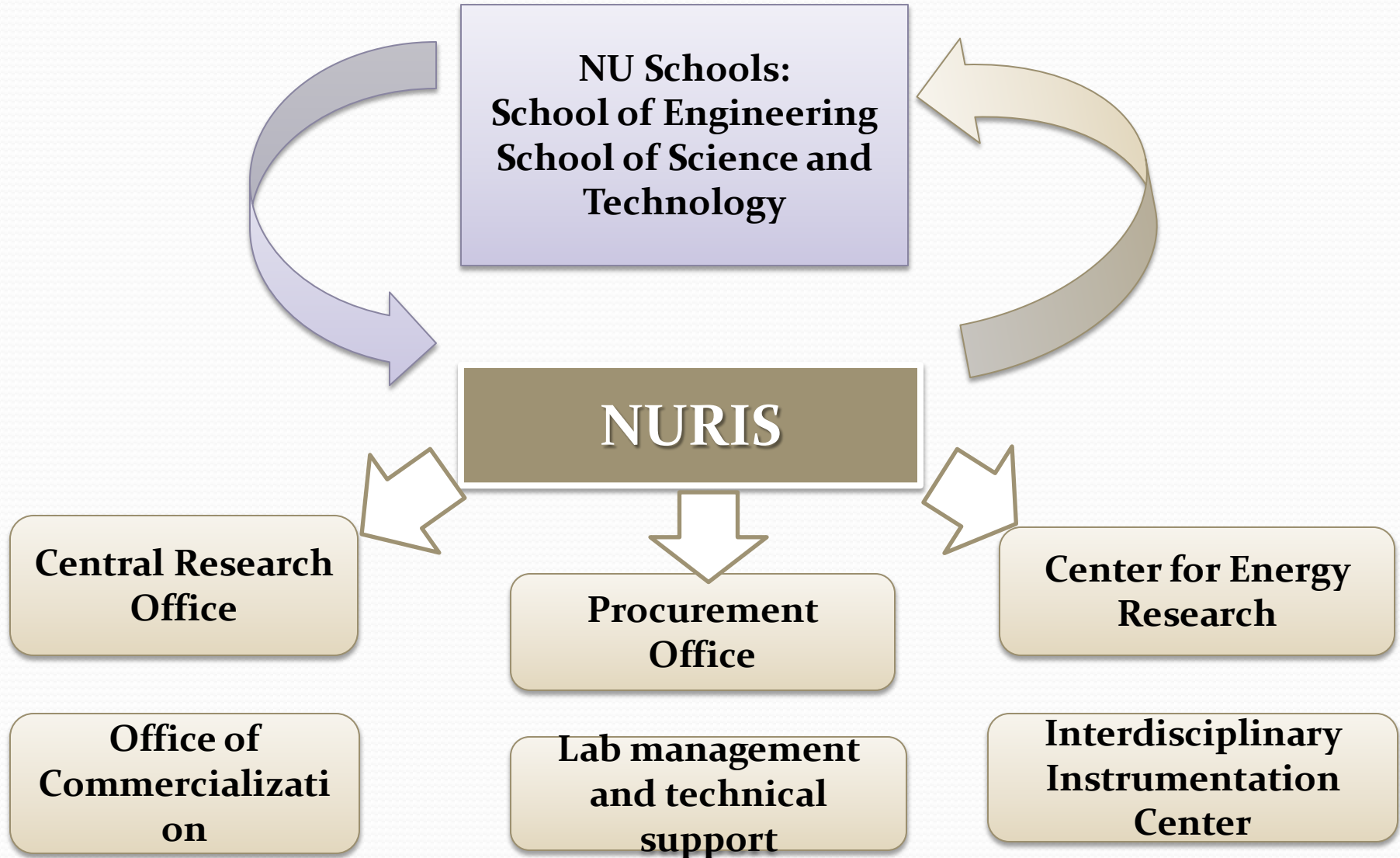
- Central Research office
- Procurement office
- Center for Energy research
- Interdisciplinary Instrumentation Center

CLS (Centre for Life Science)

NUGSE (Nazarbayev University Graduate School of Education)

- promotion of educational research, teaching and scholarship at the highest international standard,
- enhancing capacity-building in educational research, teaching and scholarship,
- pursue strategic initiatives to improve initial and continuing teacher education.

Nazarbayev University Research and Innovation System (NURIS)



- The modern **system and institutional infrastructure of research development** common to the world's research universities are set up
- There are around **160** researchers
- **Over 45** research laboratories of the School of Science and Technology, School of Engineering, Center for Energy Research and Center for Life Sciences were created



- **150** research projects are being implemented with the total budget of **3,2 billion tenge**
- **130** research papers were published in international and Kazakhstani publications, **4** patents were issued



International Evaluation (Peer Review)

- ORAU is the consortium of more than **100** research universities in the U.S.
- The base of the reviewers - **3500 experts**
- **Major clients** – universities, federal agencies, research centers in the USA



No	Criteria
1	quality and innovativeness of the research plan
2	project methodology and feasibility
3	relevance of the project to research priorities
4	research ethics
5	competency of the applicant
6	research environment
7	project cooperation
8	scientific works and literature

- Projects are evaluated against **8** research criteria
- Projects are given scores from **1** to **9** with the average score of three international experts
- Detailed evaluation report is provided for each assessed proposal with the remarks and recommendations of experts

**Nazarbayev University
Integrated Academic Healthcare
System**

```
graph TD; A["Nazarbayev University  
Integrated Academic Healthcare  
System"] --- B["Center for  
Life  
Sciences"]; A --- C["Nazarbayev  
University  
School of  
Medicine"]; A --- D["National  
Medical  
Holding"]
```

**Center for
Life
Sciences**

**Nazarbayev
University
School of
Medicine**

**National
Medical
Holding**

Center for Life Science

- The Center for Life Sciences (CLS) is a key member of the NU Integrated Academic Healthcare System and promotes aligned research and strong integration with the National Medical Holding and School of Medicine.



- The main priorities of CLS include:**
- Development of scientific and innovative approaches in tissue bioengineering, cell therapy, genomic medicine and artificial organs;
 - Development of translational medicine, rapid transfer of the latest discoveries from the laboratory to the clinic;
 - Development of the scientific foundations for the studies of healthy aging;
 - Realization of personalized medicine into clinical practice;
 - Transformation of medicine and health from a Curative to a Preemptive paradigm.

Nazarbayev University School of Medicine

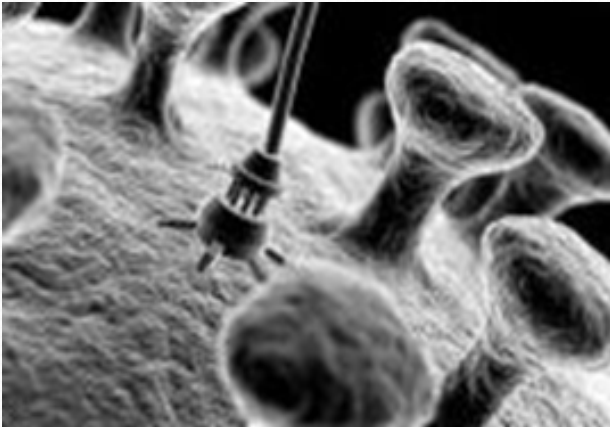
The Nazarbayev University School of Medicine (NU SOM) will be opened in 2015.

The Academic Partner for NU SOM is University of Pittsburgh (USA).



Nazarbayev University School of medicine will develop a unique model of medical education where the graduates will have the opportunity to build their careers as scholars in medical research, education, and patient care.

In the 4-year graduate medical curriculum, the students will be introduced to clinical experiences from their first year. Most of the classes and clinical rounds will be organized at the hospitals of the National Medical Holding



National Medical Holding

National Medical Holding (NMH) is a managing company of six hospitals:

- National Research Center for Maternal and Child Health
(for 500 beds)
 - Republican Child Rehabilitation Center
(for 306 beds)
 - Republican Research Center for Neurosurgery
(for 160 beds)
 - Republican Diagnostic Center
(for 500 visits/day)
- National Research Center for Emergency Care
(for 270 beds)
- National Research Center for Cardiac Surgery
(for 180 beds)

Future plans:

- Opening of the **Socio-Economic Research Institute**;
- Launching **Master's and PhD programs** at NU Schools;
- Opening **School of Medicine** in 2015.

NU Socio-Economic Research Institute will:

- provide a research outlet for NU Schools' faculty;
- promote research on socio-economic issues of interest to Kazakhstani society;
- encourage interdisciplinary research on topics such as urban development in the context of a greening economy, climate change implications on infrastructure, knowledge society, etc.

Perspectives of the future cooperation:

- Cooperation in mechanical, civil, electrical and chemical engineering programs and curricula development;
- Cooperation in development of green (sustainable) technologies;
- Students and faculty exchange programs;
- Internship opportunities for NU students in Swedish companies;
- Promoting cultural heritage exchange between two countries: conducting mutual cultural events, art exhibitions., etc.