



SECHENOV UNIVERSITY  
LIFE SCIENCES

*Founded in 1758*



# RECTOR'S WELCOME ADDRESS



## ***Dear Colleagues,***

In 2018, Sechenov University celebrated its 260th anniversary. In terms of medicine and healthcare, the University has now become the most highly respected academic center for research in Russia.

The University is developing the medicine of the future on this sound academic footing and is expanding its horizons through interdisciplinary channels in partnership with world leaders in engineering, technology and natural sciences. We seek to preserve and expand upon the heritage of our Russian Medical School.

In 2015, Sechenov University became the only medical university in Russia to participate in the 5-100 Project. The University development "Roadmap" supported by the International Council determines the basic strategy to develop life sciences. The strategy is based on the University's traditional strengths as well as expanding into new areas in conjunction with our interdisciplinary partners. In this regard, we have developed systemic biology, engineering, materials science and information and communication technologies. We believe these areas of research will be crucial to the digital economy. The University established the Science and Technology Biomedical Park and this has been fundamental to our transformation.

Our goal is to become not only the number one provider of medical training in Russia, but also one of the top medical schools worldwide. To achieve this goal, the University will continue to build effective partnerships with leaders in various fields. Uniting our strengths, together we are increasing our global competitive advantage to become established in new technologies and products as well to offer brand new educational programmes. Our priority is to enhance well-being and to develop a personalized and first-class medicine that offers life-long health care to the whole population.

Welcome to Sechenov University.

Rector

Pyotr Glybochko



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SECHENOV UNIVERSITY

## *Sechenov University - the center of academic, scientific and resource excellence in the healthcare system*

**18 000+**

students

**3 500+**

international  
students

**5**

institutes of Science  
and Technology  
Biomedical Park

**117**

departments

**14**

strategic  
development  
institutes

**2 300**

highly qualified  
lecturers

**220**

research  
fellows

**100+**

educational  
programs

**7 000+**

research publications

**83**

full members  
and corresponding  
members Russian  
Academy of Sciences

**80**

partner universities  
worldwide

**8 000**

employees

**85 000**

in-patients a year

**Interuniversity  
Collaboration  
Center  
in Uzbekistan**



Double Diploma programs

**44**

PhD Faculty  
members

**430 000**

out-patients a year

**Sechenov  
University  
Baku Branch  
(Azerbaijan)**



**465** students are trained  
in "General Medicine"

**145**

international  
specialists

**45**

honored physicians  
of the Russian Federation

**The Faculty  
of Pre-University  
Training in Iran**



**75%**

professors  
with PhD  
or Doctorate  
degrees

**365**

employees awarded  
with an "Excellence  
in Health" title



## *“High School — University — Clinic”: development of efficient continuous educational system*

### **SPECIALIZED MEDICAL CLASSES**

In collaboration with Moscow government, Sechenov University set up a system of specialized medical classes in Moscow high schools.

**108** participating schools.

**6,000** Moscow high school students involved.

### **SECHENOV MEDICAL PREUNIVERSITARIUM**

It is an educational project for high school students with classes taught by the university lecturers. The students are engaged in research projects in modern biological and chemical laboratories; they build practical skills within an original program of early vocational guidance.



**115**



**BRICS 2019**



Sechenov University offers higher education programs.

## HIGHER EDUCATION

**9** bachelor degree programs

**9** specialist degree programs

**15** master degree programs

**79** residency programs

**56** postgraduate research programs

## CONTINUOUS TRAINING

over **100** retrainings and continuous training programs

**15,800** participants





## INTERNATIONAL “MEDICINE OF THE FUTURE” SCHOOL

The school for the training of physicians of the future.

Over **700** students.

### EDUCATIONAL PROGRAMS:

- “General Medicine”, “Personalized Medicine”
- “General Medicine”, “Physician-Researcher”
- “Medical Biochemistry”
- “Medical Biophysics”
- “Mechanics and mechanical modeling”
- “Information systems and technologies”
- “Nanomaterials”
- “Material science and technology”
- “Intelligent systems in humanities”



## SCHOOLS OF EXCELLENCE

**44** schools  
**650+** students

The University training project which enables the students to acquire hands-on experience in future specialty. The training is based on the Mentor Medicus virtual clinic and Praxi Medica medical practice center.

## PROFESSIONS OF THE FUTURE

- Tissue engineer
- Molecular nutritionist
- Nanomaterial specialist
- Bioanalyst
- Network doctor
- IT-medical
- Genome management specialist







SECHENOV UNIVERSITY

*Higher education training programs for a new generation of leaders.*



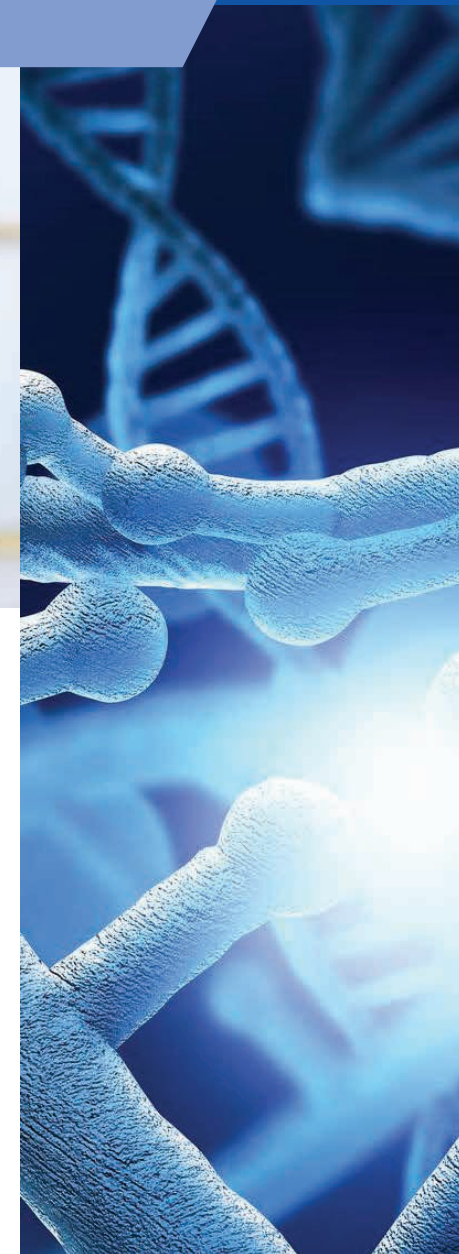
## MASTER PROGRAMS CENTER

### SPECIALTIES:

- “Biotechnology”
- “Mechanics and Mathematical Modeling”
- “Nanomaterials”
- “Information systems and technologies”
- “Industrial Pharmacy”
- “Biology”
- “Material science and technology”



- “Intelligent systems in humanities”
- “Public Health”
- “Economics”
- “Management”
- “Social worker”
- “Sociology”
- “Linguistics”
- “Special (defectology) training”



## POSTGRADUATE, DOCTORAL AND RESIDENCY PROGRAMS

**79** residency programs

**56** postgraduate programs

**14** postdoctorate programs

**Full-time postgraduate program** is a unique project for talented and motivated young researchers who are able to develop into modern researchers and world-class specialists.

## INTERNATIONAL EDUCATION CENTER

The Center for the student training coordination and strengthening of the University international collaboration with over 80 countries worldwide.

### SPECIALTIES:

- “General Medicine”
- “Pharmacy”
- “Dentistry”
- “Pediatrics”

Graduates can join the clinical residency, master, postgraduate and postdoctorate programs.





## SCIENCE AND TECHNOLOGY BIOMEDICAL PARK

The Biomedical park develops cutting-edge medicine to cure many diseases and sets up a system of personalized continuous health management.



- Institute for Bionic Technology and Engineering
- Institute for Regenerative Medicine
- Institute for Molecular Medicine
- Institute for Translational Medicine
- Institute for Personalized Medicine

## **Institute for Bionic Technologies and Engineering**

Development of artificial organs and bionic prostheses, hemocompatible anticoagulant coatings for implants, as well as tissue engineering, smart diagnostics and organs-on-chips.

### **LABORATORIES:**

- Laboratory of Wearable Biocompatible Devices and Bionic Prostheses
- Laboratory of Biomedical Nanotechnology

## **Institute for Molecular Medicine**

Search for, identification and study of new molecular markers and targets of human pathologies (oncological, hereditary, infectious), the mechanisms of their involvement and manifestation in the disease development and the ways of therapeutic impact on the disease.

## **Institute for Regenerative Medicine**

Development of interactive smart scaffolds for tissue engineering, 3D-models for tissue engineering forecasts, 3D organs and tissues bioprinting.

## **Institute for Translational Medicine and Biotechnology**

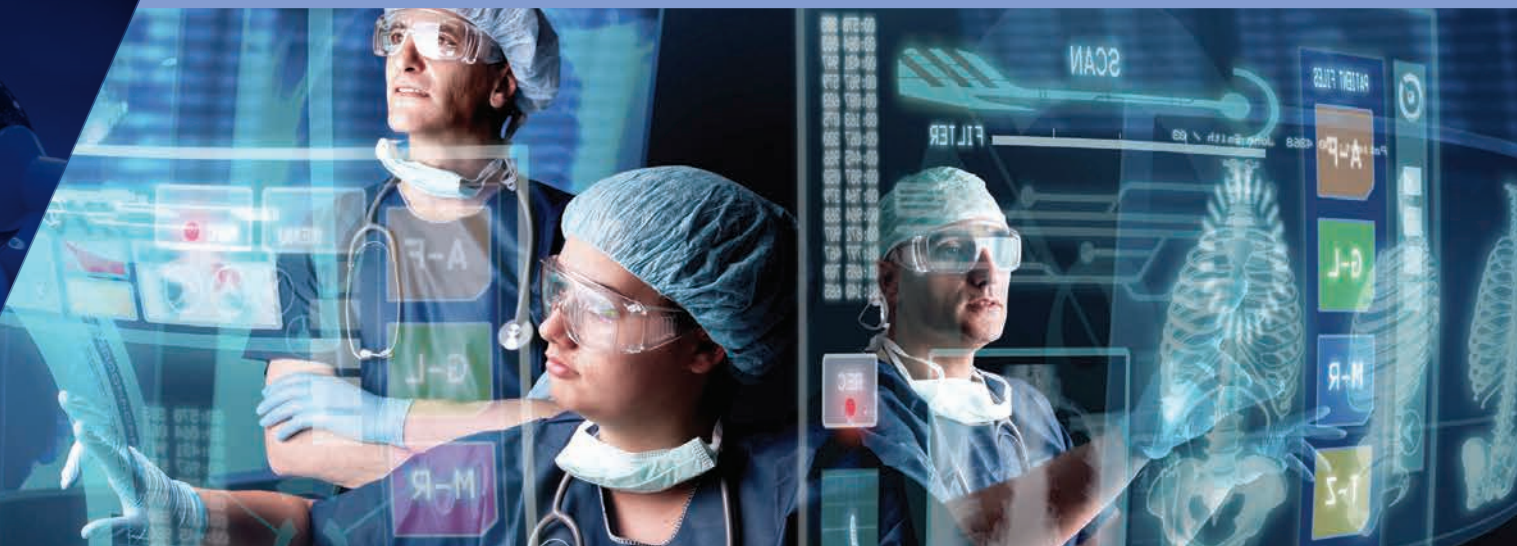
Development of the effective research and educational environment capable of developing innovative biomedical products and to performing full range research.

## **Institute for Personalized Medicine**

Development of new approaches to the diagnosis, prevention, treatment and rehabilitation based on the latest achievements of personalized medicine.



# STRATEGIC DEVELOPMENT INSTITUTES



***The Institutes' goal is the collaboration of education, science and clinical practice.***

- Institute for Pediatrics
- Institute for Clinical Medicine
- Healthcare Management and Leadership Institute
- Institute for Linguistics and Intercultural Communication
- Martsinovskiy Institute for Medical Parasitology, Tropical and Transmissible Diseases



# RESEARCH AND INNOVATION

- Institute for Public Health
- Institute for Continuous Medical Education
- Institute for Social Sciences
- Institute for Dentistry
- Institute for Urology and Human Reproductive Health
- Institute for Pharmacy
- Institute for Digital Medicine
- Institute for E-learning in Medicine



*A full range of medical services: diagnosis, treatment, rehabilitation after illness.*



**6**  
hospitals



**25**  
university clinics



**430 000**  
out-patients annually



**85 000**  
in-patients annually



The sanatorium



The rehabilitation clinic



The center of traditional  
medical systems



The oncological  
cluster



The dental center

# HUMAN RESOURCES



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**75** countries whose citizens are students of Sechenov University

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over **140** of the University employees are members of international scientific and professional societies and associations

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over **120** international scientific and practical events every year

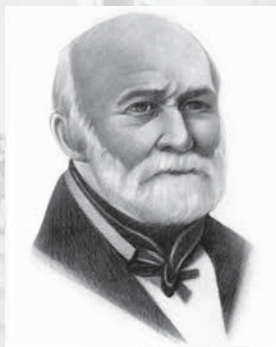
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**8** educational programs accredited in 10 countries

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## **Nikolay Pirogov**

The founder of anesthesiology and battlefield surgery in Russia, author of the first atlas of topographic anatomy.



## **Nikolay Sklifosovsky**

Professor, author of books on battlefield surgery, abdominal surgery and dentistry.



## **Ivan Sechenov**

The founder of the school of physiology. He discovered the inhibition center in the thalamus, the phenomenon of central inhibition, spontaneous biocurrent oscillations in the medulla.



## **Anton Chekhov**

A great prose writer, playwright, physician who made a huge contribution to classical world literature. His works are translated into over a hundred languages.





# GRADUATES



**Leo  
Bokeria**

The chief heart surgeon of the Ministry of Health of the Russian Federation. He developed and implemented methods of diagnosis and surgical treatment of cardiac diseases.



**Mehriban  
Aliyeva**

PhD (Philosophy), Azerbaijani State, political and public figure, First Vice President of Azerbaijan.



**Renat  
Akchurin**

A famous cardiac surgeon, who developed unique technologies in reparative vascular and cardiac surgery.



**Edward  
Bezuglov**

The physician of the Russian national football team, the chairman of the Russian Football Union medical committee, Professor of the department of Sports Medicine and Rehabilitation at Sechenov University.





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