



SAMARA
STATE
MEDICAL
UNIVERSITY

SamSMU

UNIVERSITY OF INNOVATIVE DEVELOPMENT



SamSMU TODAY:

ONE OF LEADING TECHNICAL MEDICAL UNIVERSITIES IN RUSSIA



8 educational institutes

80 departments

Multiprofile clinics (1000 bed capacity)

8 scientific research institutes

Federal Medical Innovation VR/AR Centre

Specialized innovation departments:

- Institute of Innovative Development
- Centre for breakthrough technologies «IT in medicine» (over 100+ staff developers)
- Engineering (50+ engineers and electronics specialists) centre
- Mass production centre

6 dissertation councils



SamSMU

RATINGS AND DEVELOPMENT STRATEGY



Winner of the “Priority 2030” programme

Winner of the National technological initiative center competition «Bionic engineering in medicine»

THE 601-800 in the overall world rankings. TOP-200 medical Universities in the world

ARES – 43 place among Russian Universities

priority2030
leaders are made, not born



EDUCATIONAL SPHERE: FROM THE STATIC TO THE DYNAMIC



Continuity and integration of graduate and postgraduate education

New courses and modules: Molecular genetics, Conflictology, Various applications of information technologies, Lean technologies and quality management in healthcare, Rehabilitology etc.

New educational programme «**Medical cybernetics**»



DEVELOPMENT VECTOR: DISTANCE LEARNING

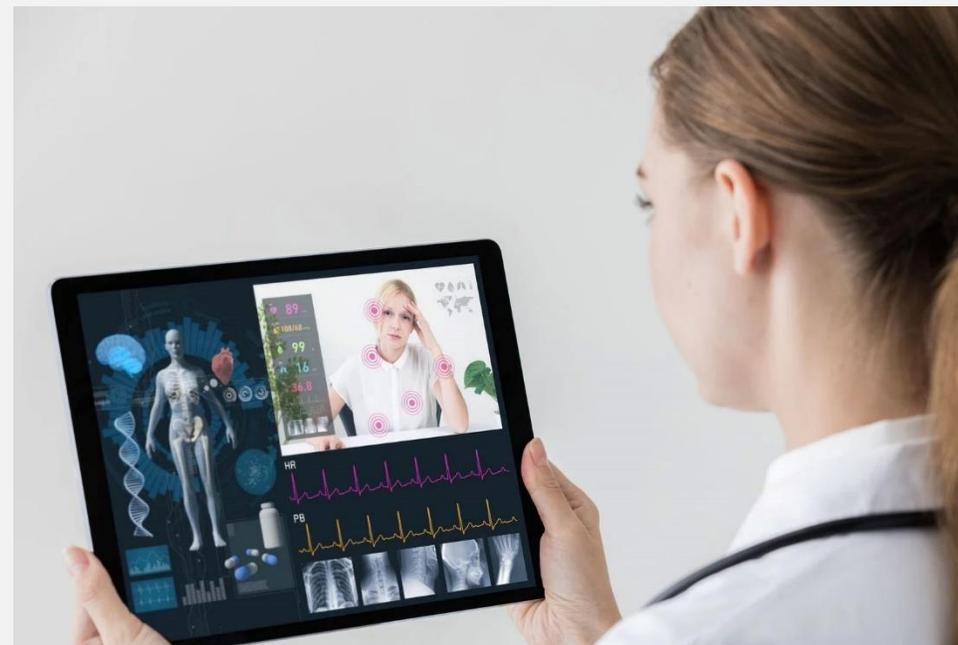


Creation of the **medical knowledge 3D-architecture** for the virtual education platform and **individual educational trajectories** in collaboration with CUSTIS

100% digitized **theoretical course for the SamSMU EIOS**

Lectures + teaching aids for **meddistant.ru**

Distance learning courses for the Multiprofile accreditation-simulation centre



UNIQUE CONTENT + WIDENING OF THE TARGET AUDIENCE =
COMPETITIVE ADVANTAGE FOR DISTANCE LEARNING SERVICES PROVIDED BY THE SamSMU

GLOBALIZATION AND INTERNATIONALIZATION OF EDUCATION

Bilingual education for students of the specialities:
General Medicine, Dentistry, Pharmacy

6 SamSMU programmes named as «**The best educational programmes of innovative Russia**»

«General Medicine» and «Pediatrics» included in the
European Quality Assurance Register for Higher Education

Admission committee working all year round: talent
recruitment via social media, 'Welcome to SamSMU' events,
providing information in a timely manner)



POSTGRADUATE PROFESSIONAL EDUCATION



Practice-oriented infrastructure: cadaver centre, Accreditation-simulation centre, Wet-Lab

New programme «**Healthcare organization management**»

Soft skills training sessions in: team work, communication skills, conflict resolution

Graduate employment in accordance with the staffing requirements approved by the Ministry of Health of the Russian Federation

Digital skills improvement programmes and medical information systems training for staff



RESEARCH ACTIVITIES



High demand research areas: genomics, bionics, tissue engineering, regenerative and personified medicine, VR/AR, neurotechnologies etc.

Collaboration with Russian and foreign universities and pharmaceutical companies;

27 clinical trial agreements with: «Generium», «Biocad», «Pharmstandard», PharmSynthez», «Amgen», «Novartis» and others.

Interdepartmental **cardiology** research project

SamSMU Clinics-based research group for development and implementation of **artificial intelligence** technologies in radiology



RESEARCH ACTIVITIES: INFRASTRUCTURE DEVELOPMENT



Research facilities established:

Institute of cardiological research

Molecular-genetical laboratory

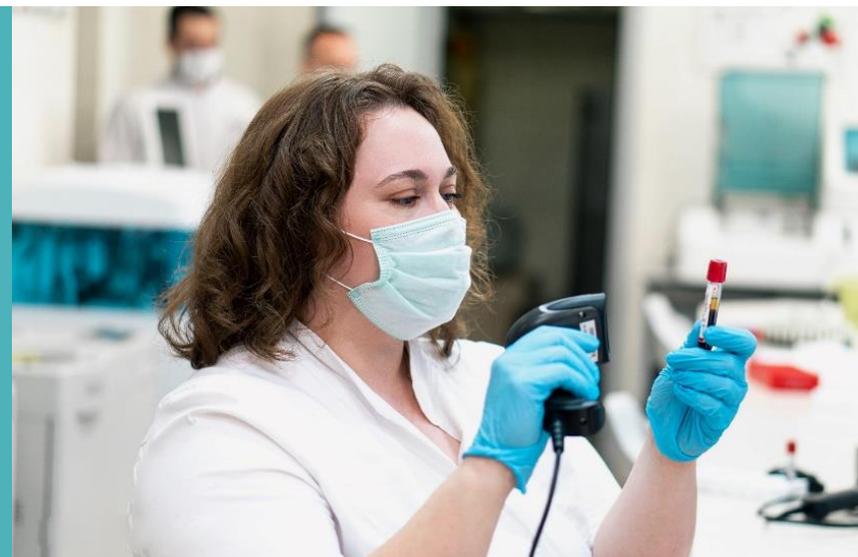
Laboratory for synthesis of metal-organic framework polymers

Research-manufacturing centre «Samara tissue bank»

centre «Samara tissue bank»

Nerosciences research centre and Neuropsychiatry research and education centre

National technological initiative centre «Bionic engineering in medicine»



TECHNOLOGICAL COMPETENCIES



Virtual Reality

7 projects in medical rehabilitation, education, virtual tours



Augmented Reality

6 projects in surgery, specialized education, and guided tours



Neuronets

2 projects in diagnostic medicine



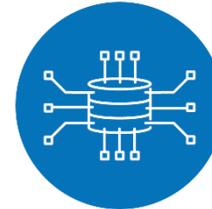
Simulation technologies

6 projects in medical education, practical medicine



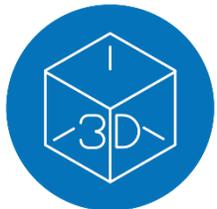
BCI (Brain Computer Interface)

6 projects in rehabilitation and diagnostics



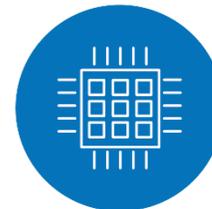
Big Data

2 projects in diagnostic medicine



High-precision 3D modeling

More than 10 projects in diagnostic medicine, rehabilitation, surgery, education, virtual tours



Lab-on-chip

5 projects in diagnostic medicine (development stage)

THE SamSMU CLINICS: INFRASTRUCTURAL DEVELOPMENT



57 structural units: **30** patient care and **10** diagnostic units

Specialized consultation–diagnostic centre: **24 thousand** registered patients

Multiprofile in-patient facility with a **1 000+** bed capacity, oncological - 10 (abdominal and thoracic surgery, urology, head and neck tumours), cardiological - 25, cardiorehabilitational - 10.

Centre for hepatopancreaticobiliary surgery and portal hypertension as well as the Centre for infectious pathology established

An out-patient coloproctology consulting room and flow cytometry lab opened



INTERNATIONAL COLLABORATION



SamSMU – the winner of Easter European Universities Association award in the category «Student and teacher mobility»

9 international staff members

34 cooperation agreements (with universities and medical companies in Germany, France, Greece, Bulgaria, Israel, India, Uzbekistan, Finland, Armenia, Belarus and many others)

Open online lectures by international speakers

International summer traineeships and student exchange trips

