



**Institute of «Automation and Information Technology»
Department «Robotics and Engineering Tools of Automation»**

**EDUCATIONAL PROGRAM
8D07105 – «Biomedical engineering»**

Code and classification of the field of education:

8D07 – «Engineering, manufacturing and construction industries»

Code and classification of training directions:

8D071– «Engineering and engineering trades»

Group of educational programs:

D102 – «Robotics and mechatronics»

Level based on NQF: **8**

Level based on IQF: **8**

Study period: **3 year**

Amount of credits: **180**

Almaty 2025

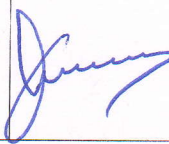
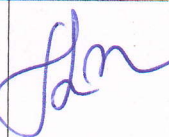

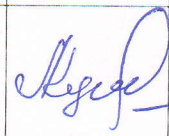
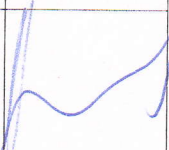
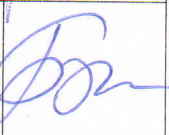

Educational program 8D07105 «Biomedical engineering» was approved at the meeting of K.I. Satbayev KazNRTU Academic Council

Minutes #10 dated 06.03.2025


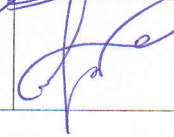

was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council

Minutes #3 dated 20.12.2024

Educational program 8D07105 «Biomedical engineering» was developed by Academic committee for the educational field 8D071 «Engineering and engineering trades».

Full name	Academic degree/ academic title	Position	Workplace	Signature
Chairperson of Academic Committee:				
Baktybaev Murat Kyrgyzbaevich	Candidate of Physical and Mathematical Sciences	Associate Professor	Department of «Robotics and Engineering Tools of Automation», K.I. Satbayev KazNRTU	
Teaching staff:				
Ozhikenov Kassymbek Adilbekovich	Candidate of Technical Sciences	Professor, Head of the Department	Department of «Robotics and Engineering Tools of Automation», K.I. Satbayev KazNRTU	
Berdibayeva Gulmira	Ph.D.	Associate professor of the department	Department of «Robotics and Engineering Tools of Automation», K.I. Satbayev KazNRTU	
Kurmangaliyeva Lazzat	Candidate of technical sciences	Associate professor of the department	Department of «Robotics and Engineering Tools of Automation», K.I. Satbayev KazNRTU	
Alimbaev Chingiz Abdraimovich	Ph.D.	Associate professor of the department	Department of «Robotics and Engineering Tools of Automation», K.I. Satbayev KazNRTU	
Bigaliyeva Zhanar Serykhanovna	Master of Technical Sciences	Senior lecturer of the department	Department of «Robotics and Engineering Tools of Automation», K.I. Satbayev KazNRTU	
Employers:				
Zhumagulov Arystanbek Kuzembayevich		Director	LLP "MEDREMZAVOD HOLDING", mobile phone: +77273440757	

Non-profit Joint Stock Company «KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY
named after K.I.SATBAYEV»

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Temirlan Yergaliuly		Head	LLP "Corporation Saiman", mobile phone: +77002504323	
Students				
Shylmyrza Ussen	1st year doctoral student	8D07105 «Biomedical engineering»	Department of «Robotics and Engineering Tools of Automation», K.I. Satbayev KazNRTU	

General information

№	Field name	Comments
1	Code and classification of the field of education	8D07 – «Manufacturing and processing industries»
2	Code and classification of training directions	8D071 – «Engineering and engineering trades»
3	Educational program group	D102 – «Robotics and mechatronics»
4	Educational program name	8D07105 – «Biomedical engineering»
5	Short description of educational program	Training of highly qualified specialists who are able to conduct research on innovative areas of biomedical engineering development that meets international standards and allows Kazakhstan to integrate into the global educational space. Graduates are awarded PhD degree.
6	Purpose of EP	The purpose of the educational program is ensuring the training of highly qualified specialists capable of developing innovative solutions in biomedical engineering, including robotic technologies, artificial intelligence, and sustainable development of the medical industry.
7	Type of EP	New
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	No
11	Education form	full-time
12	Period of training	3 year
13	Amount of credits	180
14	Languages of instruction	russian, Kazakh, english
15	Academic degree awarded	Doctor of Philosophy PhD
16	Developer and author	Ozhikenov K.A.