

## Project goal

Development, implementation, testing and validation of a bachelor's degree program in the field of industrial automation and robotics with the introduction of dual education at three universities in Kazakhstan: Kostanay Engineering and Economics University named after M. Dulatov, Innovative Eurasian University and West Kazakhstan Agrarian Technical University named after Zhangir Khan

## Project participants



UNIVERSITY OF NOVI  
SAD & UNS (Serbia)



KOSTANAY ENGINEERING  
AND ECONOMICS UNIVERSITY  
named after M. DULATOV



INNOVATIVE EURASIAN UNIVERSITY  
(PAVLODAR)



3ZHANGIR KHAN  
WEST-KAZAKHSTAN  
AGRARIAN-TECHNICAL UNIVERSITY



FH JOANNEUM (Austria)



DUALE HOCHSCHULE  
BADEN-WÜRTTEMBERG (Germany)



LLP «SaryarkaAvtoProm»



"URAL TRANSFORMER FACTORY" LLP

### Associate partners

- Kazakhstan Association of Automation and Robotics LLP «Festo-rk»
- Тоо «Фесто-рк»
- Chamber of Entrepreneurs of Kostanay region

## PROJECT WEBSITE



Kostanay,

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8 714 228 02 60

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kineu.edu.kz

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## ROBOTIC SYSTEMS

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Dual education for industrial automation  
and robotics in Kazakhstan / DIARKAZ





Profession of the future!

## PROFESSION

The graduate knows the mechanism of production processes from the technological side; is able to design an operational cycle together with its automation, and has the skills to modernise existing processes. He/she can ensure its correct operation and has the skills to visualize industrial operations.

## DUAL EDUCATION

Theoretical studies at the university - 51%

Practical training in the enterprise - 49%



## RELEVANCE

Kazakhstani industry, including mechanical engineering, is actively implementing a new generation of robotic systems that can flexibly adjust to tasks and train in the course of work. «SaryarkaAvtoProm» LLP, the country's largest automobile manufacturer, supports the development of human resources in the machine-building industry, being a partner in the dual training system. This is justified by the growing need for specialists who possess the skills of designing and programming robotic systems, as well as setting up automatic production lines.

## SKILLS

In this area, KEnEU trains qualified specialists who are proficient in highly effective methods of technological design of mechatronic, robotic and automated systems.

They are trained to create and design robotic systems for industrial purpose, develop the necessary software and algorithmic software to control such systems.

In KEnEU this specialty is taught according to the dual system. This is a special form of training based on close interaction between the university and enterprises in the region, combining theoretical training with practice.

## WHY YOU SHOULD CHOOSE ROBOTIC SYSTEMS?

**1** Theoretical and practical basis for the use of automation and robotics devices and their programming.

**2** Knowledge and skills in subjects related to information technology, electronics, industrial process control techniques, measurement systems, modern industrial control systems.

**3** Skills in computer-aided control system design, motion control systems, sensorics and robot components.

