

Division: *School of Electronic Engineering and Computer Science*

Academic programme: *09.04.01 Informatics and Computer Engineering, Technologies of Digital Transformation*

Mode of study: *full-time*

Programme length: *2 years*

Programme level: *Master's degree*

Language of instruction: *Russian*

Programme description: *Training of professionals in the field of information technology with competencies in engineering and capable of inventing, implementing and bringing on the market of breakthrough high-end technologies that lead to significant technological shifts in the digital economy.*

Graduates of this programme will be able to:

- *Conduct digital transformation of an organisation based on big data and artificial intelligence technologies;*
- *Apply Internet of things and Smart City technologies in managing the digital transformation of an organisation;*
- *Participate in the introduction of practical digital tools (ERP, MES systems, etc.) in the management of an organisation.*

Main programme-specific classes:

- *Methods of Artificial Intelligence and Neural Networks;*
- *Cyber-physical Systems;*
- *Digital Twins and Modern Industry 4.0 Technologies;*
- *Network Technologies of the Internet of Things, and IoT Hardware and Software;*
- *Solving Digital Transformation Problems in Low-level Languages, and Programming in Python Language, and more.*

Programme manager: *Aleksandr V. Gollai, Doctor of Sciences (Engineering), Director of the School of Electronic Engineering and Computer Science*