



Train traffic support systems

Automation and telemechanics in railway transport

Field of professional activity:

Graduates can work in the field of design, operation, production, construction, installation, maintenance and repair of train systems on railways and subways; in the field of development of design documentation; in the field of design, manufacture, assembly and testing of new samples; in the field of scientific research.

What positions can graduates hold:

- ✚ electrician;
- ✚ engineer;
- ✚ electronics engineer;
- ✚ technologist;
- ✚ design engineer.

Our partners are companies for employment and internship:

- ❖ structural divisions of JSC "Russian Railways" - signaling, centralization and blocking distances, infrastructure distances, road diagnostic and monitoring centers;
- ❖ Research and Design Institute of Informatization, Automation and Communication in Railway Transport (JSC "NIIAS");
- ❖ JSC "INTECHGEOTRANS-SOUTH";
- ❖ Scientific and production enterprise "Yugpromavtomatization";
- ❖ Rostov Design and Survey Institute "Kavzheldorproekt" is a branch of JSC "Roszheldorproekt".

In the course of training, disciplines will be studied:

- Mathematical modeling of systems and processes;
- Fundamentals of reliability theory;
- Digital technologies in professional activity;
- Electronics;
- Fundamentals of microprocessor technology;
- Automation and telemechanics on stages;
- Station automation and telemechanics systems;
- Operation of technical means of automation and telemechanics;
- Dispatch centralization;
- Ensuring safe and uninterrupted operation of automation and telemechanics devices;
- Scientific and technical tasks in the field of professional activity;
- Microprocessor information and control systems of automation and telemechanics;
- Fundamentals of algorithmization and programming;
- Technical diagnostics and monitoring systems;
- Automation systems of sorting slides.

