

Applied mechanics

Design support and computer engineering of machine-building industries



Field of professional activity:

- Graduates who have mastered this field of training can carry out their work in the following areas:
- Designing machines and structures in order to ensure their strength, stability, durability and safety, ensuring reliability and wear resistance of machine components and parts using computer-aided design software systems based on an effective combination of advanced technologies and performing multivariate calculations;
- Participation in works on feasibility studies of designed machines and structures, etc.

Graduates can hold the following positions:

- ✓ Design engineer of the 1st category;
- ✓ Lead Engineer;
- ✓ Lead Designer;
- ✓ Head of the Project Office;
- ✓ Head of the Design Bureau;
- ✓ Chief Designer;
- ✓ Head of the technical Department, etc.

Our partners are companies for employment and internship:

- JSC NPP KP "Kvant";
- JSC "RERZ";
- LLC "NEVZ";
- JSC "Russian Railways", etc.

In the course of training, disciplines will be studied:

- ❖ Machine Details;
- ❖ Basics of interchangeability of parts and assemblies;
- ❖ Calculations of nodes of technological machines;
- ❖ Automated design systems;
- ❖ Technological equipment control systems;
- ❖ Information technology;
- ❖ Design of technological machines;
- ❖ Methods of control and testing of machines.