





## specialities



### Electric transport

electric locomotives, electric trains,  
subway trains, the power supply systems



### Locomotives and locomotive establishment

locomotives, diesel locomotives, carriages

### Qualification after graduation:

Bachelor of electricity, electrical and  
electromechanical

Master of electricity, electrical and  
electromechanical

Bachelor of railway transport

Master of railway transport





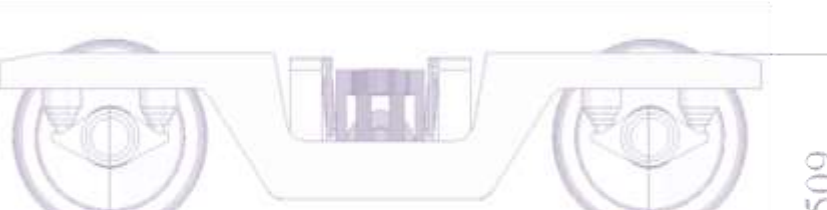
# Department of Electrical transport and Construction of Diesel locomotives



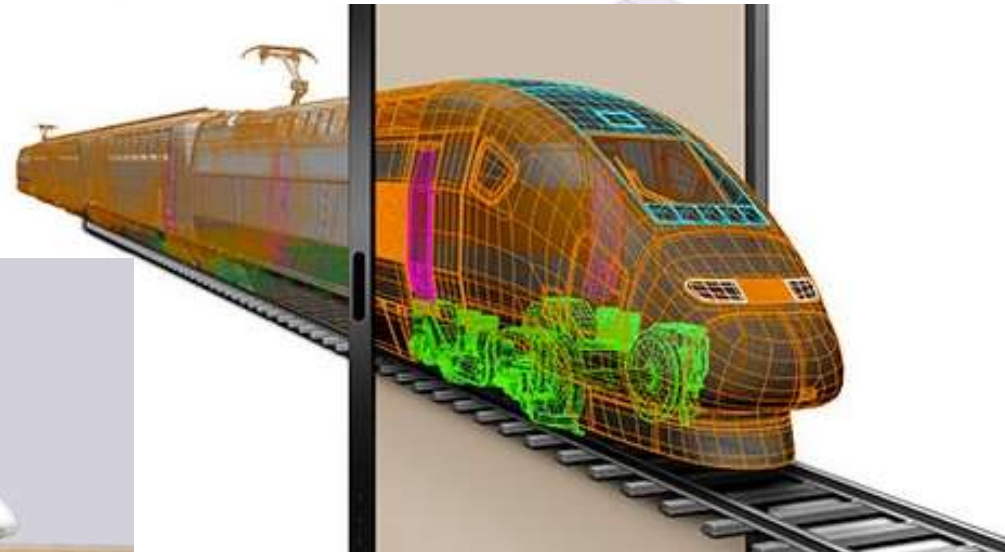
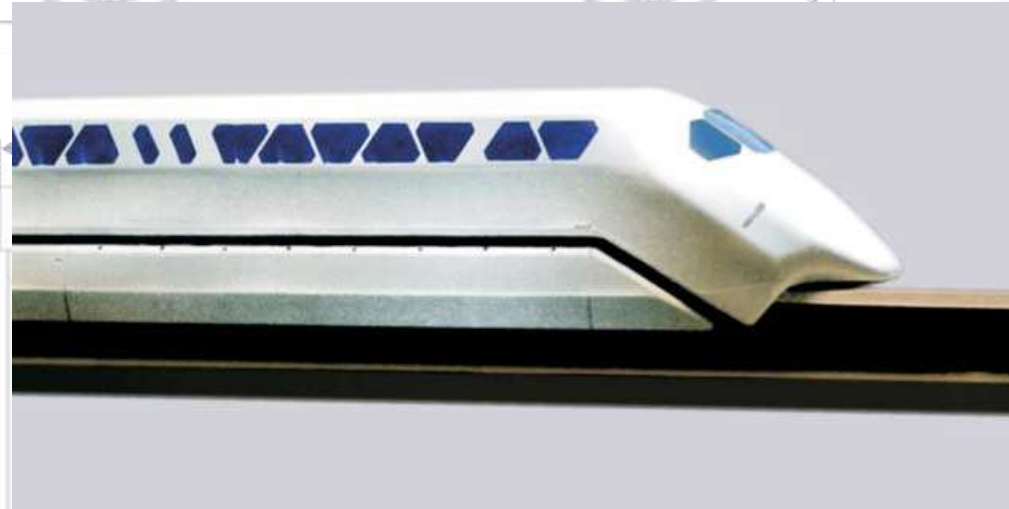
## Direction of educating

Preparation of students on a specialty "Electric transport" is conducted, oriented not only on the traditional types of electric transport for railways but also on perspective - high-speed wheeled, and also high-speed maglev.

Рама тележки



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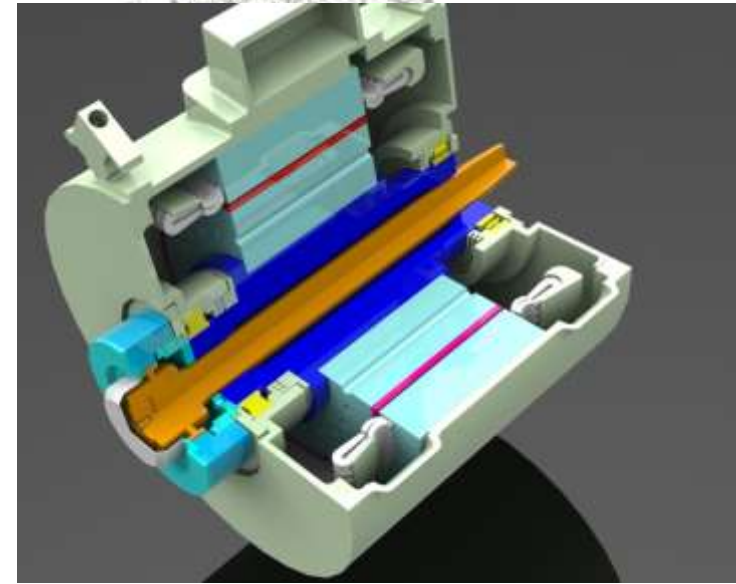
Двигатель





## Direction of educating

Graduating students of specialty "Locomotives and locomotive economy" are able to design diesel engines, carriages and special railway technique, and also their components: a power equipment is combustion engines, electric machines and electric drive; mechanical part, control system by motion of both main and industrial railway transport. They can also carry out scientific and marketing research, operate railway rolling stock.









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## Basic special disciplines for a level “bachelor”

Information technologies in transport;  
Basics of electric power and power supply;  
The theory of locomotive traction;  
The power electronic converter and microprocessor technology;  
The mechanical part of the rolling stock;  
Traction Drive;  
Independent power systems;  
Control systems;  
Technology of production of railway transport;  
Maintenance and repair of rail transport;  
Simulation of railway facilities;  
Modelling of processes of rail transport.

## Basic special disciplines for a level “master”

Electrical equipment of rolling stock and traction networks;  
Microprocessor based devices;  
Computer technologies in transport;  
Prospective rail transport;  
Social and environmental aspects of the operation of rail transport;  
Computer-aided design of the rolling stock;  
Automatic control systems;  
The design of the railway transport.



# Department of Electrical transport and Construction of Diesel locomotives



## Staff of department

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