

Area of study:  
**27.04.03 System Analysis and Management Program**  
**System Engineering**

Degree: Master  
Program length and study mode: 2020/22 (intramural)  
Language: Russian  
Credits: 120  
Start date: September 1, 2020  
Location: Taganrog

Entry requirements:  
bachelor's degree in engineering and technology.

**Program overview:**

The master's program is aimed at training the highly qualified engineering personnel, demanded by the digital economy of Russia, able to solve problems of increasing the competitiveness of companies through the use of advanced system approaches, methods and technologies. The master's program focuses on management of complex engineering and IT projects in accordance with their life cycle.

**Program structure:**

The master's program "System Engineering" consists of basic and variable parts. The basic part of the educational program includes general professional and special modules and courses. The students will acquire new competencies in the field of digital economy, will be actively involved in implementation of scientific and research projects. Special attention is paid to the applied training in modern computer technologies, principles of system approach in system modeling, engineering tasks in design of information management systems, CALS/CASE/CIM/PLM-technologies and project activity in the field of high-tech production and IT-technologies.

**Typical units of study may include:**

- Foreign language

**Careers:**

- industrial enterprises, aviation industry, electrical energy industry;
- Research institutes and design bureaus, state institutions;
- Logistics, insurance, financial, consulting, engineering companies.

**Get in touch:**

- *Andrey A. Sklyarov*
- *Candidate of Technical Sciences*
- +7(961)295-74-03
- *aasklyarov@sfedu.ru*
- *ORCID: 0000-0003-1081-2312*



	<ul style="list-style-type: none"><li>• Methodology of scientific and project activity</li><li>• Modern computer technology</li><li>• Methods of system analysis, management and decision-making</li><li>• Modeling of complex systems</li><li>• Requirements management</li><li>• Fundamentals of system engineering</li></ul> <p><b>Research areas:</b></p> <ul style="list-style-type: none"><li>• Engineering of information and control systems in the aviation industry;</li><li>• Engineering of information and control systems in energetics;</li><li>• Engineering of transport systems;</li><li>• Robotic systems engineering;</li><li>• Innovation engineering.</li></ul>	
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