



RYAZAN STATE  
RADIO ENGINEERING  
UNIVERSITY

ALWAYS  
FORWARD!

# IT-SPECIALISTS TRAINING AT RSREU



FACULTY OF  
COMPUTER  
ENGINEERING

RYAZAN, 2023

Dear applicants and their parents!

Our faculty is one of the top IT-faculties in the Russian Federation. It provides training for highly qualified specialists in demand with specialties related to a wide range of modern computing technologies.



Among the main traditions of the Faculty are high academic performance, professionalism, discipline, collectivism and mutual assistance. The selection of applicants is carried out according to the criteria: stable knowledge, individual personal qualities and awareness of the chosen profession.

A great desire of students to get an in-demand job, highly qualified teaching and scientific staff of the departments, good software and methodological equipment allow training specialists who are in demand by leading enterprises and organizations of Ryazan region, Central Federal District and the Russian Federation as well as foreign companies.

Come to the faculty family, join us!

Dean of Faculty, Dmitry Aleksandrovich Perepelkin



## FACULTY OF COMPUTER ENGINEERING

founded in 1964

5

depart-  
ments

>1300

students

1

faculty ranking

60

CSc.

top 4

technical universities ranking

20

PhD.

20

place in terms of graduate  
salaries (Superjob.ru)



military training

Department of Computer Aided Design of Computing Facilities

Department of Computational and Applied Mathematics

Department of Electronic Computers

Department of Information Security

Department of Space Technologies



## RSREU Rector Mikhail Viktorovich Chirkin

Doctor of Sciences in Physics and Mathematics, Professor,  
Honorary Worker of Russian Higher Professional Education



## Dean of Faculty of Computer Engineering Dmitry Aleksandrovich Perepelkin

Doctor of Sciences in Engineering Science, Professor, expert of the Russian Academy of Sciences (RAS), expert of the Federal Service for Supervision of Education and Science (Rosobrnadzor), federal expert of the scientific and technical sphere of the Russian Federation in "Information and telecommunication technologies"



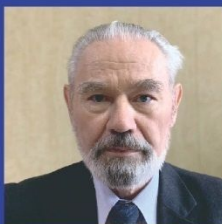
## Head of "Electronic Computers" Department Boris Vasilievich Kostrov

Doctor of Sciences in Engineering Science, Professor, Honorary Worker of Russian Higher Professional Education



## Head of "Computer Aided Design of Computing Facilities" Department Vyacheslav Petrovich Koryachko

Doctor of Sciences in Engineering Science, Professor,  
Honored Worker of Science and Technology of the Russian Federation



## Head of "Information Security" Department Viktor Nikolaevich Przhgorlinsky

Candidate of Sciences in Engineering Science, Associate Professor, member of EMA Council for education in information security at ICCI of Academy of the FSB of Russia



## Head of "Space Technologies" Department Sergei Igorevich Gusev

Doctor of Sciences in Engineering Science, Professor,  
Vice-Rector for Research and Innovations



## Head of "Computational and Applied Mathematics" Department Gennady Vladimirovich Ovechkin

Doctor of Sciences in Engineering Science, Professor

# DIRECTIONS

Bachelor's degree program	02.03.01	Mathematics and Computer Sciences
	02.03.02	Fundamental Informatics and Information Technologies
	02.03.03	Mathematical Support and Information Systems Administration
	09.03.01	Informatics and Computer Engineering
	09.03.03	Applied Informatics
	09.03.04	Software Engineering
Specialist's degree program	10.05.01	Computer Security
	10.05.03	Information Security of Automated Systems

Military Training Center

Reserve Officers Training

## Direction 02.03.01

Space Technologies  
Department

"Mathematics and Computer Sciences"

### Alumnus

- Programmer
- System Analyst
- R&D Specialist



### Disciplines

- Basics of Algorithmization and OOP
- Mathematical and Computer Modeling
- Basics of Building Information Communication Systems
- Basics of Electronic Means Design
- Geoinformatics
- Mathematical Methods in Space Technologies
- Space Systems and Technologies
- Technologies of Programmable Logic Integrated Circuits

## Direction 02.03.02

CAD of CF  
Department

"Fundamental Informatics and Information Technologies"

### Alumnus

- Programmer
- Software Architect
- Web and Multimedia Apps Developer
- Network Administrator
- Big Data Specialist

### Disciplines

- Python Programming
- Algorithms and Data Structures
- Web Programming
- Systems Programming
- Operating Systems
- Computer Networks
- Wireless Networks
- Internet Technologies
- Cloud Computing
- Artificial Intelligence Technologies
- Machine Learning and Data Analysis

## Direction 02.03.03

Electronic Computers  
Department

"Mathematical Support and Information Systems Administration"

### Alumnus

- Programmer
- Software Architect
- Database Administrator
- IT Test Specialist

### Disciplines

- Basics of Algorithmization and OOP
- SQL Programming
- Information Systems Object Modeling
- Information Systems Development Technologies
- Database Administration
- Client Apps Programming



## Direction 09.03.01

Electronic Computers  
Department

"Informatics and Computer Engineering"

Academic program "Computers, Computer Complexes, Systems and Networks"

### Alumnus

- Systems Programmer
- Software Architect
- Network Administrator
- R&D Specialist

### Disciplines

- Informatics
- Databases
- Computers and Peripheral Items
- Programming Techniques
- Client and Server Databases Apps
- Microprocessor Systems and Interfaces
- Digital Devices Design
- Specialized Computers

## Direction 09.03.01

CAD of CF  
Department

"Informatics and Computer Engineering"

Academic program "Computer-aided Design Systems"

### Alumnus

- Programmer
- Systems Programmer
- Industrial Designer
- Digital Libraries Development Engineer

### Disciplines

- Algorithmic Languages and Programming
- Computer Graphics
- Geometric Modeling
- Parallel Programming
- AI in CAD
- Automation of Engineering and Technological Design



## Direction 09.03.01

Space Technologies  
Department

"Informatics and Computer Engineering"

Academic program "System Analysis and Information Process Engineering"

### Alumnus

- System Analyst
- Web and Multimedia Apps Developer

### Disciplines

- Systems and System Analysis Theory
- Systems Engineering Methods and Techniques
- Basics of Systems Analysis and Decision-making Theory
- CASE-technologies of Engineering
- Information Theory and Information Technologies
- Multimedia Technologies
- Computer Vision Basics



## Direction 09.03.03

Computational and Applied  
Maths Department

"Applied Informatics"



### Alumnus

- Programmer
- IS Specialist
- System Analyst
- IT Project Manager

### Disciplines

- Algorithmic Languages and Programming
- Visual Programming
- IT and Services Marketing
- Team Development of Software Systems
- IC Solutions Design
- Introduction to Industrial Java Software Development

## Direction 09.03.04

Computational and Applied  
Maths Department

"Software Engineering"

### Alumnus

- Programmer
- System Analyst
- IT Test Specialist



### Disciplines

- Basics of Software Engineering
- OOP
- Software Design
- Functional Programming
- Network Administration
- Development of Multithreaded Apps
- Software Testing
- Industrial Development on MS.NET Platform

## Specialty 10.05.01

Information Security  
Department

### "Computer Security"

#### Alumnus

- Cyber Security Specialist
- Computer Systems and Networks Security Specialist



#### Disciplines

- Information Security Basics
- Programming Methods
- Cryptography Methods and Protocols
- Protection in Operating Systems
- Programs and Data Protection
- Basics of Secure Computer Systems Building
- Methods and Tools for Intrusion Detection in CS

## Specialty 10.05.03

Information Security  
Department

### "Information Security of Automated Systems"

#### Alumnus

- Cyber Security Specialist
- Information Security Specialist in Automated Systems



#### Disciplines

- Reliability Theory Basics
- Mathematical Models of Security Policies
- Cryptographic Information Security Methods
- Development and Operation of Secure Automated Systems
- Monitoring and Auditing Computer System Security

As part of their studies at the Faculty, students receive in-depth knowledge and skills in the field of fundamental computer science and programming, design and construction, computer modeling, network technologies, artificial intelligence and data analysis, information security and many other areas.

In the process of studying at the Faculty, special attention is paid to the study of "new mathematics" methods, the formation of algorithmic thinking skills, the ability to quickly analyze heterogeneous unstructured data arrays, interdisciplinary work skills, a research approach to engineering and project activities.

## ADMISSION POINTS

Direction/Specialty	code	2022 EGE points			EGE subjects
		max	average	min	
Computer and Information Sciences	02.03.00	256	223	211	Mathematics
Informatics and Computer Engineering	09.03.01	267	227	216	
Applied Informatics	09.03.03	265	236	234	Physics/ Informatics and ICT
Software Engineering	09.03.04	293	249	249	
Information Security	10.05.00	256	225	221	Russian
Faculty Average Point				<b>232</b>	

## ADMISSION PLAN 2023

Direction/Specialty		code	budget	contract
Bachelor's degree program	Computer and Information Sciences	<b>02.03.00</b>	60	45
	Mathematics and Computer Sciences	02.03.01		
	Fundamental Informatics and Information Technologies	02.03.02		
	Mathematical Support and Information Systems Administration	02.03.03		
	Informatics and Computer Engineering	<b>09.03.01</b>	69	15
	Applied Informatics	<b>09.03.03</b>	25	15
	Software Engineering	<b>09.03.04</b>	45	25
Sp. degree program	Information Security	<b>10.05.00</b>	55	40
	Computer Security	10.05.01		
	Information Security of Automated Systems	10.05.03		
Total at Faculty			<b>254</b>	<b>140</b>

## CONTRACT TUITION FEE \*

Direction/Specialty	code	Tuition fee rub./year
Computer and Information Sciences	<b>02.03.00</b>	130 000
Mathematics and Computer Sciences	02.03.01	
Fundamental Informatics and Information Technologies	02.03.02	
Mathematical Support and Information Systems Administration	02.03.03	
Informatics and Computer Engineering	<b>09.03.01</b>	134 360
Applied Informatics	<b>09.03.03</b>	
Software Engineering	<b>09.03.04</b>	
Information Security	<b>10.05.00</b>	
Computer Security	10.05.01	
Information Security of Automated Systems	10.05.03	

## SCHOLARSHIP \*

Type of scholarship	sum, rub.
Basic	
1 year	3000
2-5 year	5000
Enhanced (All "excellent" grades)	7500
Enhanced for Academic Excellence	9500
Bursary	
1-2 year	+9500
3-5 year	+4000
Russian Government Scholarship	+5000
Russian President Scholarship	+7000
Relief-Centre Scholarship	+10000
Hardship Grant	+5000-25000

Currently, in Russia, as part of the formation of a new technological order in industry and business, national digitalization programs have been adopted: the national program «Digital Economy of the Russian Federation», the national strategy for the development of artificial intelligence and the strategy for the development of the electronic industry of the Russian Federation for the period up to 2030. In all adopted national programs of scientific and technological development, a large role is assigned to end-to-end digital technologies: big data, neurotechnology, artificial intelligence, distributed database technologies, new production technologies, the industrial Internet, wireless technologies, robotics and sensor components, virtual and augmented reality technologies.

Almost all of the above-mentioned areas of end-to-end technologies are used in the educational process of our Faculty and are associated with the unification of people and objects into unified smart systems and complexes that interact via the Internet.

*\*The tuition fees and scholarships shown in the table are current for the 2022-23 academic year and are subject to change.*

## SUPPLEMENTARY COURSES FOR STUDENTS

### SberTech company



1. Architecture of Industrial Automation Systems
2. Industrial Java Programming
3. Basics of Big Data and Business Intelligence

### Tinkoff Development Center



1. System and Business Analysis
2. Kotlin Programming
3. Functional Programming

### PROMAVTOMATIKA company



1. Introduction to Configuration in "1C: Enterprise 8" System. Main Objects
2. "1C: Professional" for Users of Software Products "1C:Enterprise"
3. Development of Mobile Apps on "1C:Mobile" Platform

### D-Link company



1. Basics of Data Transmission and Switching in CN
2. CN Switching and Routing Technologies
3. Basics of Embedded Systems Programming on Linux platform

## SCIENTIFIC AND EDUCATIONAL CENTERS

Electronic Computers  
Department

Scientific and Educational Centre "Specialized Computers"  
D-Link Authorized Education Center  
Scientific and Educational Centre "Digital Economy Competencies"

CAD of CF Department

Centre for Innovative Network and Cloud Technologies (CINCT)

Space Tech. Department

Scientific and Educational Centre "Space Technologies"

Electronic Computers  
Department

Regional Educational and Scientific Centre  
"Information Security"

# Regional Olympiads and Competitions

- 01 Regional Database Olympiad
- 02 All-Russian Olympiad on Analytics and Design of Information Systems
- 03 Regional Olympiad "Microprocessor Systems and Their Application"
- 04 Interregional School Olympiad in Mathematics and Cryptography named after I.Ya. Verchenko
- 05 Regional Olympiad on Information Protection
- 06 Regional School Olympiad in Computer Science and Programming
- 07 Web Apps Development Contest
- 08 Contest on Information and Computing Technologies "IT OPEN"
- 09 Contest on Network Technologies Basics
- 10 UX/UI Interfaces Design Competition
- 11 Regional Olympiad on 1C Programming
- 12 Competition for Mobile Apps Development on 1C Platform

## Student Practice

Practical training of students of the faculty is carried out in high-tech IT companies and defense industry enterprises of Ryazan and Ryazan region. The main focus of the practical training of students is the acquisition of practical skills necessary for future professional activities.

In the process of internship, students consolidate and deepen the theoretical knowledge they received at the university, acquire practical competencies and skills, as well as experience in independent professional activity.





## COUNCIL OF YOUNG SCIENTISTS AND SPECIALISTS OF FACULTY OF COMPUTER ENGINEERING

It is designed to promote the professional development of young researchers, teachers and specialists, the accumulation of experience, self-realization to the maximum disclosure of the scientific potential of students.



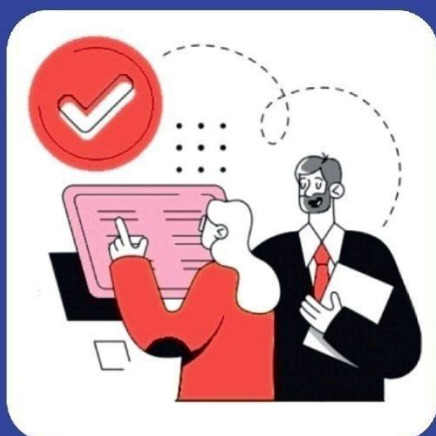
You have an interesting idea and a desire to implement it or engage in scientific activities. But you don't know where to start, where and what to submit, how to arrange...



Write to our group or contact the Council representative of your department if you are interested in the project. They will gladly answer all your questions and tell you more about everything.



We will help you find a scientific supervisor and direct your research in the right direction.



We will tell you what conferences, competitions and grants exist, how to make an application, write a good scientific article and prepare a presentation.



Participate in all-Russian and international events, upgrade your skills, gain achievements in your personal portfolio.



Follow the latest news in our V Kontakte group  
<https://vk.com/smusfvt>  
and Telegram channel  
<https://t.me/smusfvt>

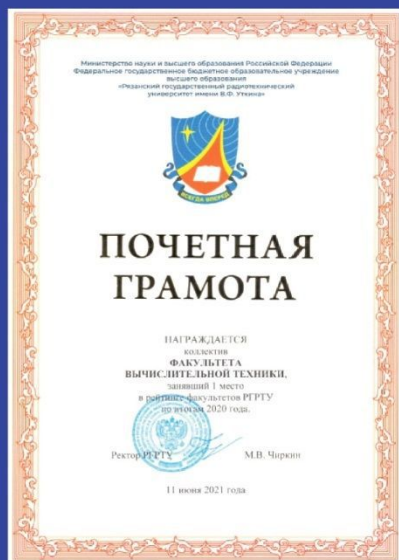
# STUDENTS' LIFE



# ACHIEVEMENTS AND AWARDS



# ACHIEVEMENTS AND AWARDS



# OUR ALUMNI



**Sergei Anatolyevich Kornishev**  
CEO  
OOO "Promavtomatika"  
Ryazan



**Artem Valeryevich Kukhareno**  
CEO  
OOO "Programnyi Region"  
Ryazan



**Aleksandr Andreevich Vyushkov**  
CEO  
OOO "LIDMASHINA"  
Ryazan



**Roman Vitalyevich Vezenov**  
Head of Regional Development  
GC "INNOTECH"  
Ryazan



**Igor Vladimirovich Drozhzhin**  
Head of Production and Technical  
Complex AO "Ryazan State  
Instrument-making Enterprise "  
Ryazan



**Aleksei Nikolaevich Manikhin**  
Head of Data and Digital  
Systems Business Area  
PAO "Nornickel"  
Moscow



**Nikolai Vladimirovich Kravchuk**  
Head of Digital  
Transformation Department  
AO "Transmashholding"  
Moscow



**Nadezhda Nikolaevna Kalinkina**  
Head of "Electronic Computing and  
Information System" Department  
AO SPC "ELVIS"  
Moscow

# EMPLOYMENT



# High-quality IT Education in Ryazan!



## Join us!

## CONTACTS



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fvt@rsreu.ru



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