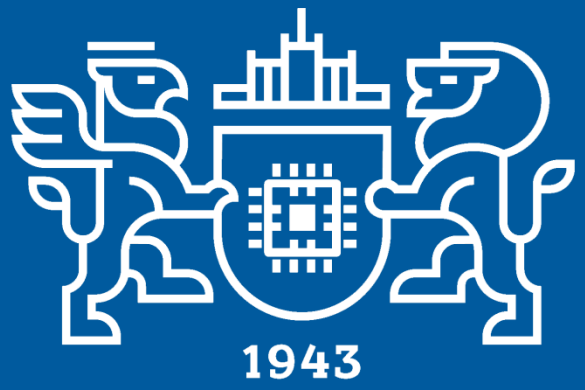


SCHOOL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE (EECS)

South Ural State University (national research university)

EECS Today

200
teachers and staff

35
years-average employee age

>25
professors and doctors of science

10
departments

30
laboratories and scientific-educational centers

658 TFlops
total peak power of supercomputers LSM SUSU

>700 M rub
total investment in research projects SUSU (2014-2016)

>20
grants of students and PhD-students

7
victories at the World RadioScience Championship (callsign UK9AAN)

Education system

Baccalaureate
4 years

Diploma of Higher Education and Academic Degree "BACHELOR"

Magistracy
2 years

Diploma and academic degree "MASTER"

SPECIALTY
from 5 to 5.5
years

Diploma of higher education and qualification "SPECIALIST"

Postgraduate
study
4 years

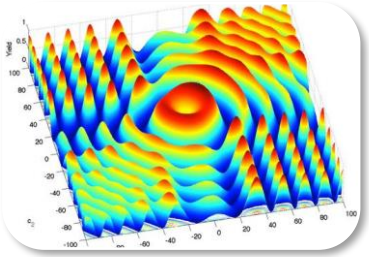
Diploma and degree "CANDIDATE OF SCIENCE "

Automation and Control

Automatic Control Systems

Information-measuring Equipment

Design and Manufacture of Radio Equipment



Computational Mathematics and High-Performance Computing

Information and communication technologies

Information Security

Information and Analytical Maintenance of Management in Social and Economic Systems

System Programming

Computers

How to enroll

1. Pass exams


Maths


Russian language


Physics

or


Computer science

2. Choose direction

Physics

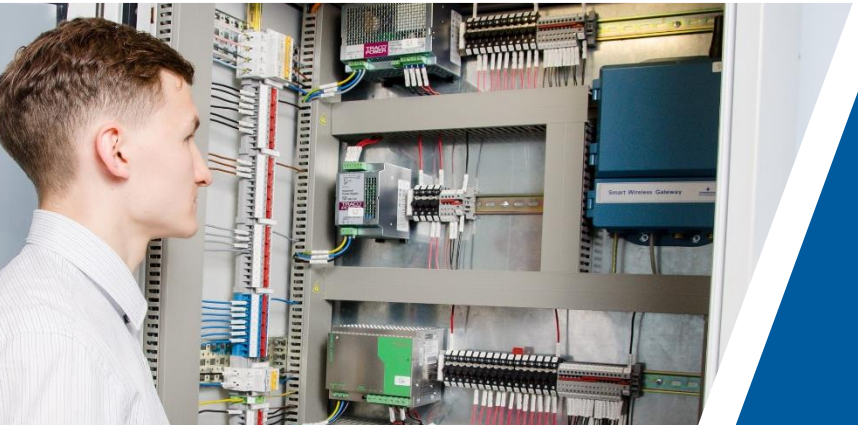
Control and Device equipment	Radionics
Device equipment	Information and communication technology and communication systems
Traffic control systems and navigation	Design and technology of electronic means
Engineering Systems Management	Electronic systems and complexes

Computer science

- Computer Science and Engineering
- Information Security
- Software engineering
- Fundamental Computer Science and Information Technology

3. Become a student!

EECS Laboratories:



The newest systems **Emerson PlantWeb** allow to explore energy accounting systems and power regulation systems, management methods with fuzzy logic, neural networking and forecasting.

EECS Laboratories:

Endress+Hauser

Advanced solutions at the management technological process and control and measurement equipment; means automation from leading producer - corporation **Endress + Hauser (Switzerland).**

EECS Laboratories:

KASPERSKY lab

Education and research at the information security of technological process management systems for leading Urals and Russian companies

SUSU Supercomputer simulation laboratory

- ✓3 supercomputers
- ✓Supercomputer **Tornado SUSU** 473.6 TFLOPS
- ✓Intel Xeon X5680 6x3,33 GHz and Intel Xeon Phi 61x1,1 GHz
- ✓8-th power in Russia

International scientific laboratories

Self-diagnosis and self-control devices and systems laboratory

The leader - Professor **Manus Henry (University of Oxford, UK) -** engages in research in the field of signal processing, measurement technique and self-technical systems

Laboratory of problem-oriented cloud environments

The leader - Professor **Andrei Tchernykh (Center for Scientific Research and Higher Education, Ensenada, Mexico) -** engages in research in the field of distributed computing and cloud computing technologies.

EECS industrial partners

NAPOLEON IT COMPANY

SKB Kontur

EMERSON

Practical training in the leading industrial and IT-companies

Interaction with well-known partners

The possibility of future employment

Cooperation with international scientific organizations

МЕТРАН

Yndex

ГРЦ

Endress+Hauser

International activities

LUT
Lappeenranta
University of Technology

Masters double degree program → Joint PhD Study

Erasmus+

- **12** • Universities of Europe, Russia and Jordan
- **50** • More than 50 participants
- **8** • The countries of Europe, Russia, Jordan, Latin America
- **20** • Professors

uclan CICESE Universität Rostock AALBORG UNIVERSITET

Lectures of world-class scientists at EECS

- Course «Open key cryptology»
  Professor Frank Leprevost (University of Luxembourg)

- Course «Fundamental of quantum computing»
  Professor Jaewan Kim (Korea Institute of Advanced Study)

- Course «Self-diagnosis and self-monitoring devices and systems»
  Professor Manus Henry (University of Oxford, UK)

- Course «Fundamental of computer vision»
  Professor Arto Kaarna (Lappeentanta University of Technology, Finland)

- Course «Multi-Objective Modelling and Optimization of Scientific and Industrial Applications on Distributed Computing Infrastructures»
  Professor Radu Prodan (Innsbruck University, Austria)

- Course «Green computing»
  Professor Andrei Tchernykh (Center for Scientific Research and Higher Education, Ensenada, Mexico)

- Course «Mathematical Foundations of human-centric interface»
  Professor Janet Read (University of Central Lancashire)

Innovations from the first year of study

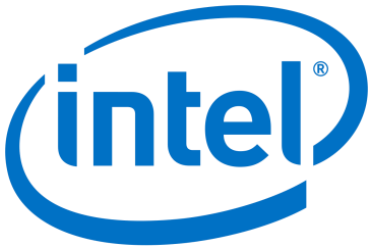
More than 30 students of EECS are innovative competitions winners. Each nationwide competition “UMNIK” winner gets **500 000 rubles** on implementation its own project at the IT and device engineering.

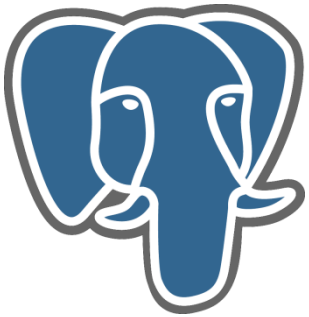
- **The winners competition “UMNIK 2017”:**
  - **Nicholai Dudarev (PhD-student, Department of ICT):** *design volumetric-modular technologies hf and microwave devices*
  - **Daria Kletsko (PhD-student ,Department of ICT):** *design technologies for creation hearing perceptions on basis phenomenon radiosound*
  - **Igor Suhinsky (student of System Programming Department):** *design of system analysis defects fields of view patient by perimetry from using points virtual reality*
  - **Kirill Tatarkin (student of Information-measuring equipment Department):** *design prototype medical stand "standing frame" with virtual reality element*
  - **Elizaveta Shulga (student of System Programming Department):** *design of advanced system CCTV for cars-, moto-, bike- parks on basis of automatic linking object and owner*
  - **Yekaterina Yungaytis (PhD-student, Department of Design and Manufacture of Radio Equipment):** *research and design Antennas-mast devices glide path beacon*

Participate and win!

- Global Game Jam - World championship on the development of computer games. **2018 year**: 90 participants, 24 finished games in 48 hours!
- **Individual championship on programming among freshmen:** Start your journey in the Olympiad programming!
- Take training **Olympiad school programming** and take part in the world championship ACM!

Where to go to work?





Become a part of EECS

Questions?

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