

***Potential of the Ural Federal University for the  
export of Russian nuclear education***

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## URFU IN RANKINGS

### TOP-500

World QS Ranking

### TOP-251-300

In the subject ranking on mathematics  
(QS Quacquarelli Symonds)

### TOP-400

Subject ranking on physics and astronomy,  
Electronics and electrical engineering  
(QS Quacquarelli Symonds)

### 78 PLACE

Among BRICS Universities  
(World QS Ranking : BRICS countries )

### 10 PLACE

Among best Russian Universities  
(Webometrics Ranking of World Universities)

### TOP-10

Best Russian Universities  
(According to the rating agency "Expert RA")

### 165 PLACE

In the rating "BRICS countries and developing»  
(according to the agency "Times Higher Education")

### TOP-60

The best universities in developing countries in Europe  
and Central Asia

## INTERNATIONAL STUDENTS

By the total number of students  
URFU **ranks 1st** in the country

International students make up **7%**  
of the total number of students in UrFU

There are **2174 international students** at UrFU  
from **75 countries**

### Bachelor programs:

- 1 Bachelor 2-diploma program
- 1 Bachelor program in English

### Master programs:

- 25 Master 2-diploma programs
- 29 Master programs in English

### Short-term programs:

- Summer / Winter university
- Modular programs
- Short-term curriculum building  
programs with international universities

## PROGRAMS IN NUCLEAR FIELD AND RELATED AREAS

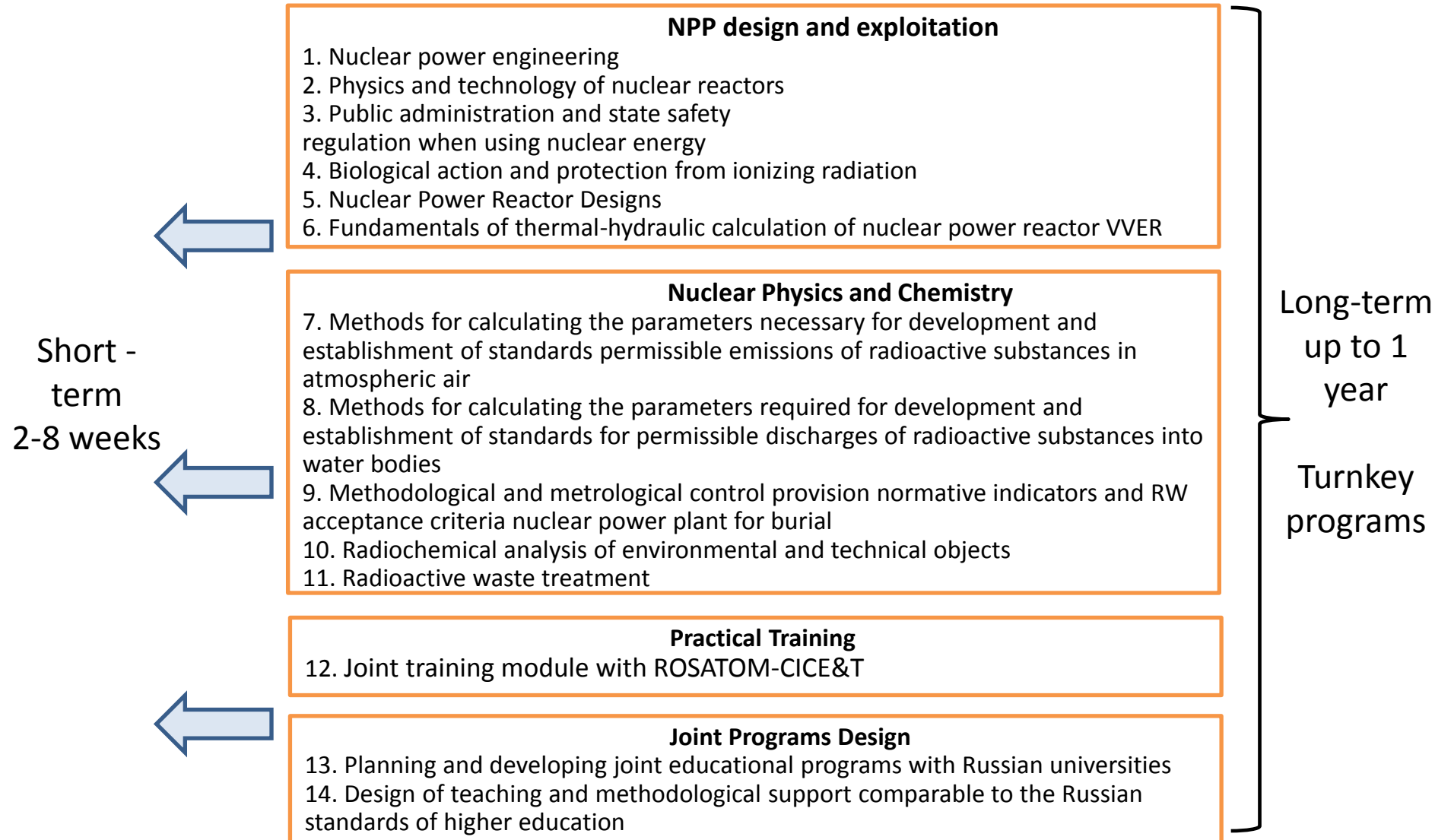
- Nuclear Physics and Technology
- Nuclear power
- Thermal power engineering and heat engineering
- Civil Engineering
- Information systems and technologies
- Mechanical engineering
- Energy business

79 international students from Rosatom partner countries:

Iran, India, China, Belarus, Vietnam, Bolivia, Egypt, Jordan, Bangladesh

UrFU implements a program of advanced training in the field of commercial nuclear energy, nuclear and radiation safety.

# Modular programs



# Programs of modern energy approaches and technologies (Nuclear energy, renewable energy)



The laboratory training complex has more than 100 models of equipment and fitment

## Postgraduate Diploma [3+2]

### NPP: Design, operation & engineering

- Design and features of nuclear reactors 4 generations;
- Maintenance and repair of nuclear power plants;
- Exploitation, operation and engineering of nuclear power plants;
- Extension of the resource and the decommissioning of the nuclear power plant.
- Joint training module with ROSATOM-CICE&T



## Master program [1+1 or 1.5 + 0.5]

### Renewable energy installations

- Thermodynamic and photovoltaic solar stations
- Wind power plants
- Methods and models of optimization of complex renewable energy systems

# Programs in Nuclear Physics and Chemistry



Linear electron accelerator УЛЭР-10-10С. Particle energy is 10 MeV, beam current is 1 mA, output power is 10kW

## Master program [1+1] Nuclear Sciences and Technology

- Physics of Nuclear Reactors
- Radiation Technology
- Radiation Safety and Protection
- Radioecology
- Training in electron accelerator center



Cyclotron TR-24 (ACSI, Canada). Proton energy is 18-24 MeV, beam current is till 300 mA. Modern complex of radio engineering equipment for obtaining medical isotopes. Quality control laboratory of radiopharmaceuticals

## Master program [1+1] Nuclear Chemistry

- Radiochemistry
- Radiochemical analysis of environmental and technical objects
- Radionuclides in the environment
- Radioactive waste treatment
- Training in the Cyclotron Nuclear Medicine Center

# UrFU cooperation proposals



Master programs 1+1

Modular programs up to 1 year

Winter University January 2018

Practice training module

Short-term curriculum building programs  
with international universities

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THANK YOU!