

**INTERNATIONAL INTERGOVERNMENTAL ORGANIZATION
МЕЖДУНАРОДНАЯ МЕЖПРАВИТЕЛЬСТВЕННАЯ ОРГАНИЗАЦИЯ
JOINT INSTITUTE FOR NUCLEAR RESEARCH
ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ**



JINR experience in human capacity building

D. Kamanin,

Head of the Department of International Cooperation

FE-2019 Belgrade, Serbia
12-13 November 2019

Dubna – Island of stability

Location

Dubna, Moscow region

Partner network

800 destinations in 62 countries

Personnel

5000 total staff, 1200 researchers

Annual budget

200 million USD

JINR comprises 7 Laboratories, each being comparable with a large institute in the scale and scope of investigations performed



Dzhelepov
Laboratory of Nuclear Problems



Veksler and Baldin
Laboratory of High Energy Physics



Bogoliubov
Laboratory of Theoretical Physics



Flerov
Laboratory of Nuclear Reactions



Frank Laboratory of Neutron Physics



Laboratory of Radiation Biology



Laboratory of
Information Technologies

The main fields of activity



Student programmes

- BS, MS and PhD theses at JINR
- International Student Practices
- Summer Student Programme
- Conferences for young scientists and specialists

Outreach programmes

- Scientific Schools for physics teachers at JINR and CERN
- Visits to the JINR labs for students
- Open resource edu.jinr.ru
- Science festivals

Skill improvement

- Advanced practices
- Attachment of degree-seekers
- Engineering training
- Professional course
- Foreign language course

To ensure the effective use of JINR facilities and expertise

To train highly qualified scientists and engineers from the Member States

To bring up-to-date scientific knowledge to the general public and to highlight recent scientific achievements of JINR



Programmes for school students

Advanced training programmes for school students from:



Israel March



Germany June



Czech Republic July



1-day visits to JINR labs and Museum for **30 groups of school students annually**

International Schools for Teachers' 2019



- Summer School at **JINR and Dubna University** (July) 23 participants from 4 countries
- School for teachers from the Czech Republic and Slovakia at **JINR** (June-July) 16 participants
- Autumn School at **CERN** (November) 24 participants from 3 countries



International Student Practice' 2019

105 participants from 11 countries

Duration 3 weeks. Financed by sending party. Since 2004.



Stage 1
South Africa



Stage 2
Azerbaijan, Bulgaria,
Czech Republic, Poland,
Romania, Slovakia



Stage 3
Belarus, Serbia, Cuba,
Chile, South Africa

Coming up
in
December

Stage 4
Egypt

Summer Student Programme

56 students from 16 countries

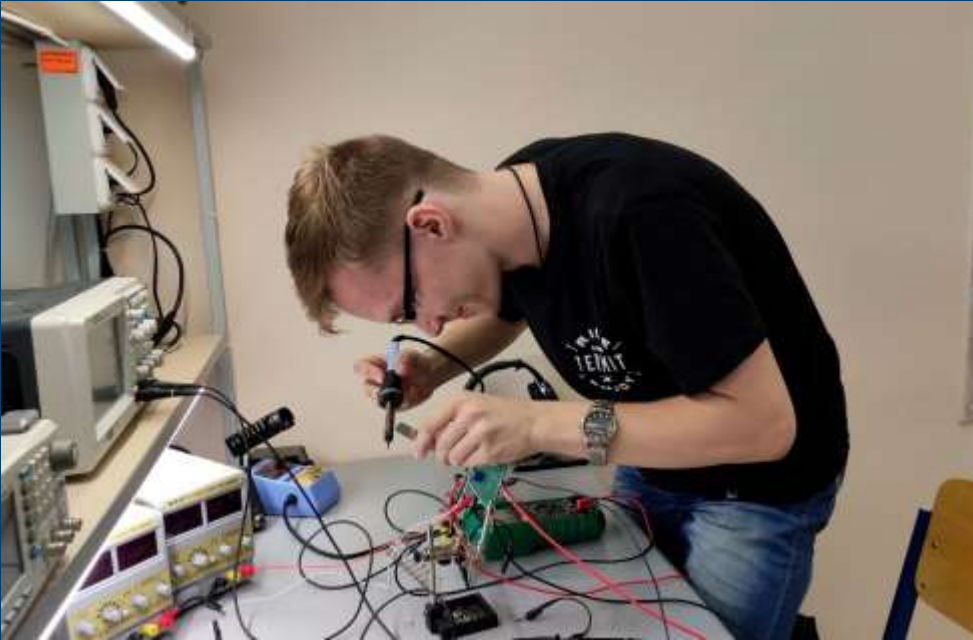
Duration 6-8 weeks. Financed by JINR. Since 2014.

Team for Future of NICA collider



Training for engineers from WTU and partner universities
Moderated by Warsaw University of Technologies
Duration from 3 week up to 3 month

Programmes for university students



Engineering practicum at JINR
infrastructure & guidance development



Dubna school of engineering
Training of highly-qualified engineers

Joint education programmes with leading Russian universities



Information
Center





Open source of video lectures by JINR staff members on:

- Experimental high energy physics
- Detectors in the nuclear and high energy physics
- Heavy ions and the synthesis of heavy elements
- Mega-science project NICA
- Quantum Computation and Quantum Information

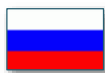
Educational Project “Virtual Laboratory”



Partners from 12 countries are involved



Over 500
lectures



edu.jinr.ru/vlabs



JINR Expertise for Member States and Partner Countries (JEMS)

First 10 training programmes from April 2017 to February 2019

116 participants from 27 countries

JEMS Plan 2019

- X** February, 4-8
- XI** April, 1-5
- XII** June, 3-7
- XIII** September, 9-13
- XIV** December, 2-6 (in Russian)

Generic day-by-day JEMS Programme
in Laboratories:

Day 1. Heavy Ion Physics and Accelerator Technologies,
Day 2. Neutron Applications and Nano-World;
Day 3. Theory, Information, Education;
Day 4. Life Sciences on the Earth and Space;
Day 5. Neutrino and particle physics.

Social programme, customized items



Participants 1-10

Russia	22
South Africa	16
Vietnam	10
Serbia	9
Egypt	6
Bulgaria	5
Hungary	5
Rwanda	5
Czech Republic	4
China	4
AAEA	3
Cuba	3
Mongolia	3
South Korea	3
Sri Lanka	3
Belarus	2
Botswana	2
Chile	2
Germany	1
Lebanon	1
Moldavia	1
Italy	1
Iraq	1
Oman	1
Poland	1
Romania	1
Zambia	1

MS	52
AM	38





Science
Bringing
Nations
Together

... and builds future!