



## **Postdoctoral Programme in Accelerator Physics and Technologies (RF Technology for Hadron Beams)**

**12-month contract**, renewable for another max. 24 months

### **Your mission**

The successful candidate will be a member of the Accelerator division at VBLHEP JINR. The division work is focused on the development of the NICA accelerator facility. He/she will be working with normal and superconducting cavities of the RF system. Expert level of skills in the field of high-power microwave technology (high-voltage resonators, waveguide technology) and superconducting accelerator systems. Experience in organizing and safe conducting experimental and commissioning work, in planning and analyzing experiment results, in training the operating personnel.

### **Your tasks**

You will work with our Linear accelerator group, your research programme will focus on:

- Assembling, commission and first tests of Collider NICA barrier and harmonic RF systems.
- Creation, commission and first tests of superconducting section of proton linear accelerator.
- Assembling, commission and first tests of warm sections of light ion linear accelerator.

### **Constraints and risks**

The candidate is expected to undertake international business trips for periods varying from 1 to 4 weeks. Shift work and work on weekends may be necessary. The work will be carried out at the accelerator facilities, whereby the necessary authorizations will be issued following the annual medical examination arranged by the employer.

Depending on your citizenship, you may need to obtain a visa and this process can last several months. JINR offers all the necessary support for obtaining the entry permit for the Russian Federation.

## Your profile

- Highly motivated candidate with a PhD (obtained less than 5 years ago) in accelerator physics, or in a similar field.
- Age under 40, have not had more than 3 temporary positions.
- Strong background in RF technologies is a prerequisite.
- Practical experience in operation with warm RF cavities and superconducting accelerator sections would be advantageous.
- As an international intergovernmental research organization, we are particularly keen to ensure that we also attract applicants from outside of Russia. You must have good knowledge of English and be willing to learn Russian (a language course will be provided by JINR).

## What we offer

### High quality of life

Called the "Island of Stability", the city of Dubna is ideally located on the bank of Europe's largest waterway — the Volga River (only 2.5 hours from Moscow by train or bus and 1.5 hours by car from Sheremetyevo International Airport). It is important for us that our employees quickly and easily adapt to the new living conditions and have a healthy work-life balance. Therefore, we offer accommodation in comfortable guest-house rooms (for singles), or fully furnished flats owned by JINR, and annual paid leave.

### Prospects

We guarantee you a **12-months postdoctoral contract, renewable for another max. 24 months (36 month in total)**, in a multicultural scientific environment.

### Remuneration

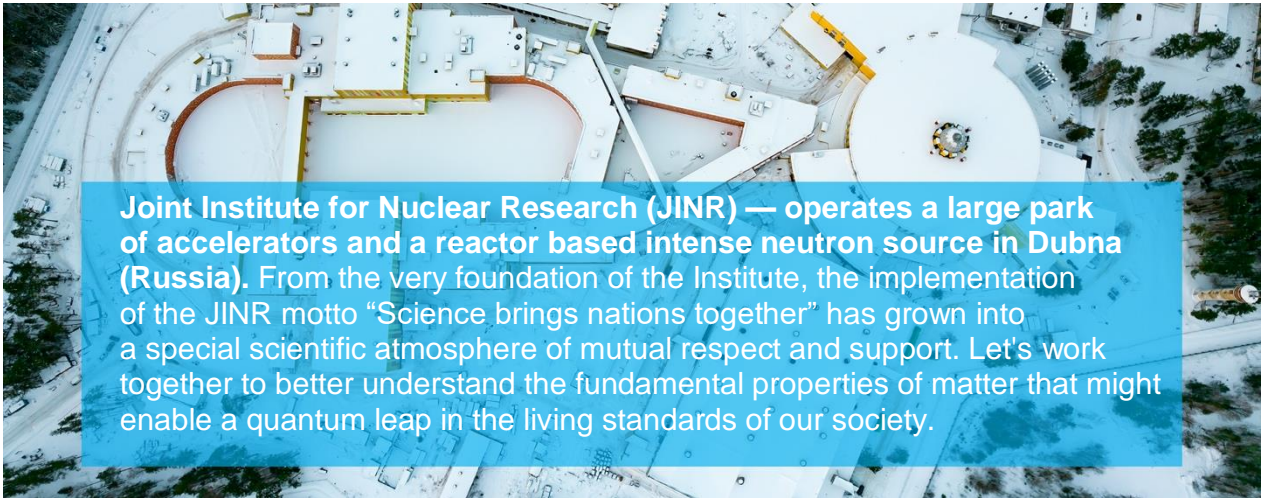
2300 USD per month, paid in Russian rubles at the planned exchange rate (forecasted year-average), which is adopted with the JINR budget for the current year. In 2023, the exchange rate is 69.2 Russian rubles per 1 USD.

Income tax of 13% is applied. The employer shall pay no pension insurance.

### Benefits

We offer considerable social benefits: settling-in allowance, air fare (except for family members), free local health insurance for you and your family members, relocation assistance (under certain conditions), free public school or kindergarten attendance for children. We also offer free Russian courses and subsidies for the use of JINR sports infrastructure (Olympic swimming pool, stadium, gym, etc.), as well as access to a variety of cultural activities.

**Apply now**



**Joint Institute for Nuclear Research (JINR)** — operates a large park of accelerators and a reactor based intense neutron source in Dubna (Russia). From the very foundation of the Institute, the implementation of the JINR motto “Science brings nations together” has grown into a special scientific atmosphere of mutual respect and support. Let's work together to better understand the fundamental properties of matter that might enable a quantum leap in the living standards of our society.

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