

# SCIENCE BRINGS NATIONS TOGETHER



# **Postdoctoral Programme in Accelerator Physics**

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

#### Your mission

A mega-science project "NICA Complex" is being implemented at JINR to construct and operate a complex of superconducting rings for colliding beams of heavy ions. The main task is to study hot and dense strongly interacting baryonic matter, as well as to search for a mixed phase and a critical point in the QCD phase diagram. The successful candidate for this position will actively participate in the technological launch of the complex, followed by registration of the first collisions of ions in colliding beams, and then its commissioning and operation to provide ion beams for physical experiments.

#### Your tasks

You will work in the Accelerator division at Veksler and Baldin Laboratory of High Energy Physics. Your research programme will focus on:

- Suppression of the electron-cloud effect in hadron synchrotrons and circular ion colliders.
- Collaborative work with young researchers (NICA team members).
- Expert assessment of the proposed technical solutions of the project.

### **Constraints and risks**

The candidate is expected to go on international business trips for periods of 1 to 4 weeks. Work in shifts and work on the weekends may be necessary, remote work is allowed. The work will be carried out at the accelerator facilities, while the necessary authorizations will be issued following an 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 physics, accelerator physics, or in a similar field.
- Age under 40, have not had more than 3 temporary positions.
- Experience in the field of suppression of the electron-cloud effect in proton synchrotrons and circular ion colliders.
- Ability to develop necessary technical documentation of the project.
- 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.

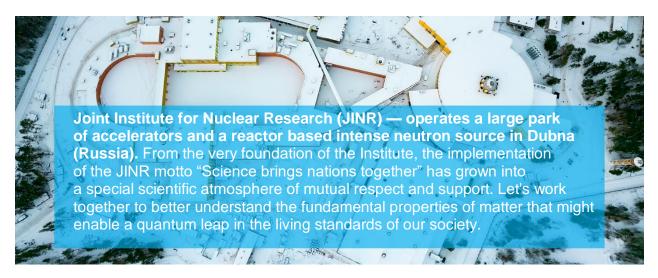
Income tax of 13% is applied. The employer shall pay no pension insurance.

#### **Benefits**

We offer generous social benefits (settling-in allowance, free health insurance for you and your family members), relocation assistance (under certain conditions), free school or kindergarten attendance for children. We also offer free language 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** 





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