



## **Postdoctoral Programme in Short Baseline Reactor Neutrino Investigations**

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

### **Your mission**

Your mission will be to participate in the studies conducted at the Laboratory of Nuclear Problems, with the aim to investigate rare phenomena associated with weak interaction using methods of modern nuclear spectrometry. You will take part in the ongoing world-leading experiments related to the reactor neutrinos investigations (DANSS, nuGeN, Ricochet) and in R&D programmes of new projects.

### **Your tasks**

Your tasks may include:

- Participation in data taking of ongoing experiments.
- Commissioning experimental setups.
- Backgrounds studies and investigation.
- Analysis of the current data and search for new effects.
- Development of the equipment and R&D studies.

### **Constraints and risks**

The candidate is expected to go on international business trips for periods of 1 to 4 weeks. The work will be carried out at Dzheleпов Laboratory of Nuclear Problems, a JINR facility, 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....
- Age under 40, have not had more than 3 temporary positions.
- Strong background in experimental physics and data analysis is required.
- Practical experience in neutrino or dark matter physics 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 a 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

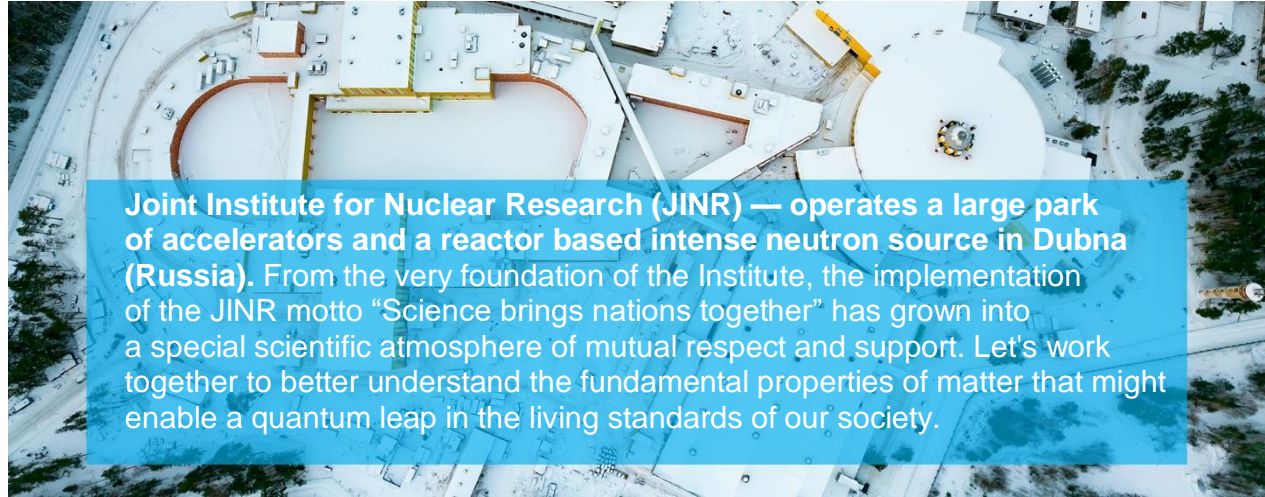
2300 USD per month, paid in Russian rubles at the planned exchange rate (forecasted year-average), which is adopted with the JINR budget for the current year. In 2023, the exchange rate is 69.2 Russian rubles per 1 USD.

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](#)



**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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