

SCIENCE BRINGS NATIONS TOGETHER



Postdoctoral Programme in Neutron Instrument Simulation

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

Your mission

The main objective of this position is development of new neutron instruments or their elements (like neutron guide, collimator, chopper etc.) for the currently operating IBR-2 reactor and for the future neutron source in the Frank Laboratory of Neutron Physics (FLNP) reactor NEPTUN. The work includes running simulations in program packages VITESS and McSTAS. The simulations have to provide optimal characteristics of every element of a neutron instrument for the best quality of the instrument as whole.

Your tasks

You will work with the IT group in the Spectrometer Complex Department of FLNP. Your research programme will focus on:

- Monte Carlo simulations with program packages VITESS and/or McSTAS.
- Defining the optimal parameters of elements of neutron instruments in collaboration with instrument responsible.
- Making conclusions and recommendations about the optimal parameters of neutron instrument's elements.

Constraints and risks

Remote work is allowed.

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, materials science, or in a similar field.
- Age under 40, have not had more than 3 temporary positions.
- Strong background in experimental physics is a prerequisite.
- Practical experience in neutron scattering methods 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.

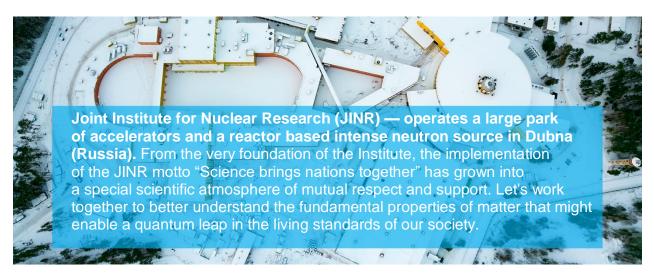
Income tax of 13% is applied. The employer shall pay no pension insurance.

Benefits

We offer 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





jinr.int | telegram | twitter

