Joint Institute for Nuclear Research
International Intergovernmental Organization

SCIENCE BRINGS NATIONS TOGETHER

Postdoctoral Programme in Inelastic Neutron Scattering Investigation

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

Your mission

The main objective of this position is to study the structure and dynamics of new biologically active materials. The project will make full use of the Inelastic Neutron Scattering spectrometer NERA at the IBR-2 Reactor at the Frank Laboratory of Neutron Physics (FLNP), (http://flnph.jinr.ru/). Additional investigative tools will include x-ray scattering, calorimetry, Raman and IR spectroscopy, and computer simulations of dynamics (density functional theory, molecular dynamics).

Your tasks

Your research programme will focus on:

- Participation in conducting independent and collaborative neutron scattering experiments using neutron inelastic scattering method.
- Participation in conducting independent and collaborative experiments using complementary methods.
- Analysis of large amounts of data.
- Publication of the research results in peer-reviewed scientific journals.
- Presentation of the results at international scientific conferences and meetings.
- Assistance to users as a local contact for experimental setup and data acquisition, participation in user education as needed.

Constraints and risks

The work is partially carried out at the reactor facilities, and necessary authorizations will be issued following an annual medical examination arranged by the employer.

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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 or chemistry.
- Age under 40, have not had more than 3 temporary positions.
- Experience in the fields of lattice dynamics and computer simulations of microscopic dynamics (especially first-principles simulations) will be an advantage.
- 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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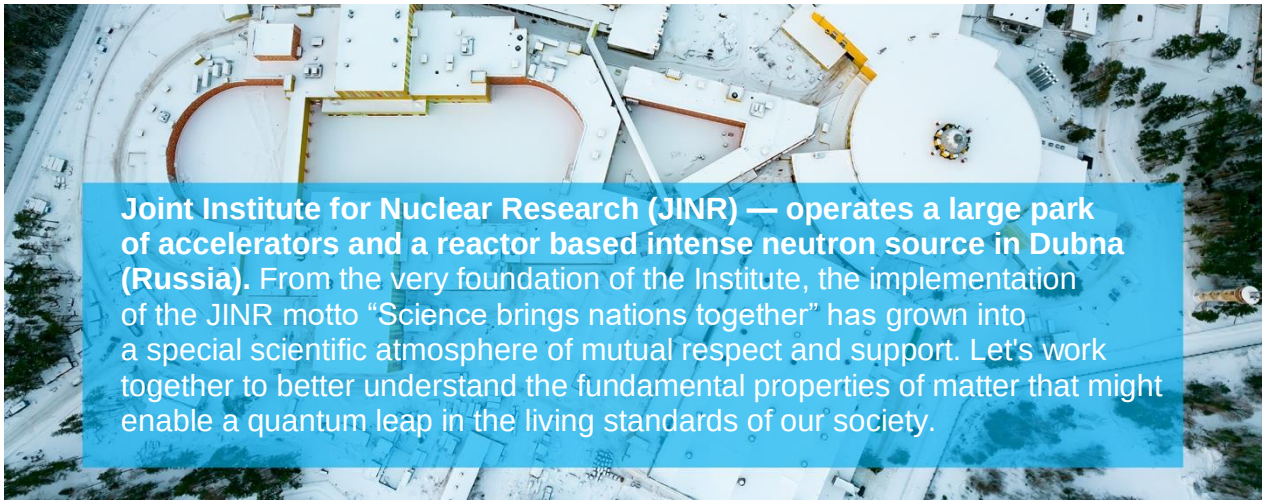

Joint Institute for Nuclear Research (JINR) — operates a large park of accelerators and a reactor based intense neutron source in Dubna (Russia). From the very foundation of the Institute, the implementation of the JINR motto “Science brings nations together” has grown into a special scientific atmosphere 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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