



## **Postdoctoral Programme in Radiation Biology – Radiochemistry**

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

### **Your mission**

The main objective of this position is managing the operation of the radiochemical facility that is designated to provide support for radiobiological studies in the Laboratory of Radiation Biology. The activities will include design, synthesis, radiolabeling and purification of compounds for radiobiological experiments with cellular and small animal models, using biologically relevant radionuclides such as for example iodine-131 and iodine-125. The maintenance of the radiochemical facility with strong adherence to the radiation safety requirements is an important element of the position.

### **Your tasks**

You will work in close interaction with the researchers in the Department of Radiation Biology and Physiology. Your research programme will focus on:

- Cooperation with research radiobiologists in the development of the structure of radiolabelled compounds and selection of radionuclides to achieve the objectives of radiobiological experiments.
- Development and implementation of the procedures for synthesis/radiolabeling of the compounds of interest.
- Preparation, purification and analysis of radiolabelled compounds.
- Preparation of laboratory formulations of the radiolabelled compounds for radiobiological experiments involving cell and animal models.

### **Constraints and risks**

The candidate is expected to undertake work in cooperation with other researchers, therefore work in shifts and work on the weekends may be necessary for experimental timelines to be implemented. The work will be carried out in the radiochemical facility with implied radiation risk,

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 radiation physics, chemistry, biology or another relevant field.
- Age under 40, have not had more than 3 temporary positions.
- Strong background in radiation physics and/or chemistry, either academic or through previous employment is a prerequisite.
- Solid knowledge of radiation risks and safety requirements pertaining to radionuclide work and handling.
- Practical experience in working in a radiochemical laboratory and handling radioactive substances.
- 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

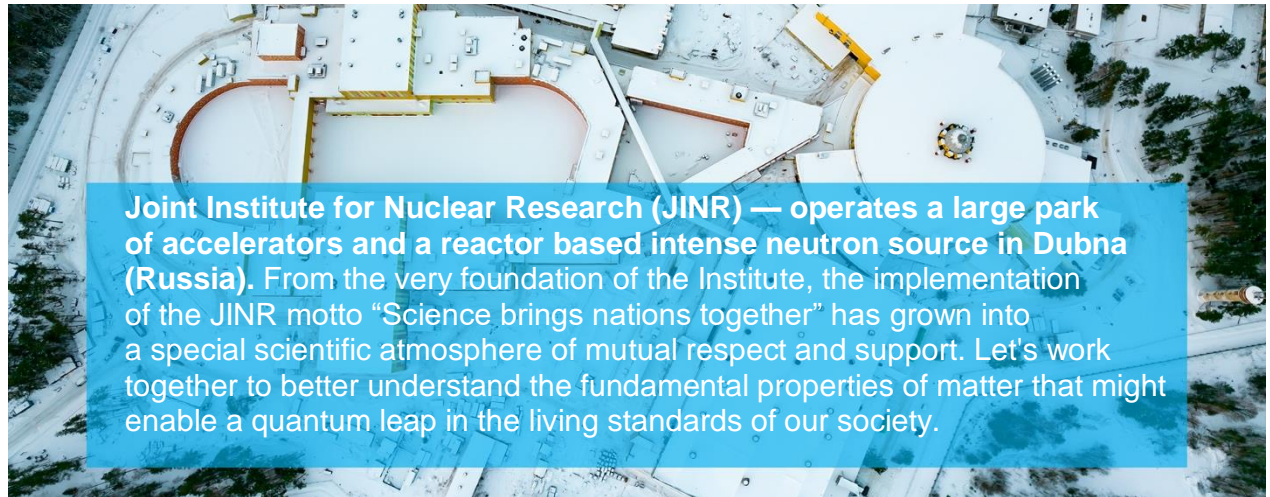
2300 USD per month, paid in Russian rubles at the planned exchange rate (forecasted year-average), which is adopted with the JINR budget for the current year. In 2023, the exchange rate is 69.2 Russian rubles per 1 USD.

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](#)



**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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