



## **Postdoctoral Programme in Radiation Biology – Molecular Radiobiology & Cell Imaging**

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

### **Your mission**

Research activities in the Laboratory of Radiation Biology cover a broad range of studies related to analysis of pathways of DNA damage repair, approaches to modifying normal and tumor cells radiosensitivity with applications in radiotherapy of cancer and radiation protection. The main objective of the proposed position is to consolidate studies in this area of research by establishing, expanding and supporting a range of modern high-resolution immunofluorescent microscopy and flow cytometry techniques, and to provide support and guidance to young researchers in the Laboratory in this area.

### **Your tasks**

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

- Studies on molecular pathways of clustered DNA double strand break repair in mammalian cell lines exposed to densely ionizing radiations.
- Search and development for approaches and molecular targets to increase the radiosensitivity of tumor cells.
- Quantification and analysis of images of DNA lesions obtained with high resolution immunofluorescent microscopy.
- Analysis of multiparameter flow cytometry data.
- Technical assistance and training provided to young researchers in the Laboratory in high-resolution immunofluorescent microscopy and flow cytometry.

### **Constraints and risks**

The candidate is expected to undertake work in cooperation with other researchers, therefore shift work or work on weekends may be necessary to provide implementation of experimental timelines.

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 biology, molecular biology, photonics or another position relevant field.
- Age under 40, have not had more than 3 temporary positions.
- Strong background in radiation biology, either academical or acquired through previous employment is a prerequisite.
- Practical experience working in molecular biology laboratory, cell line techniques and immunofluorescence staining.
- Knowledge and experience in modern technologies of single cell optical imaging including laser scanning confocal microscopy and more advanced techniques.
- 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

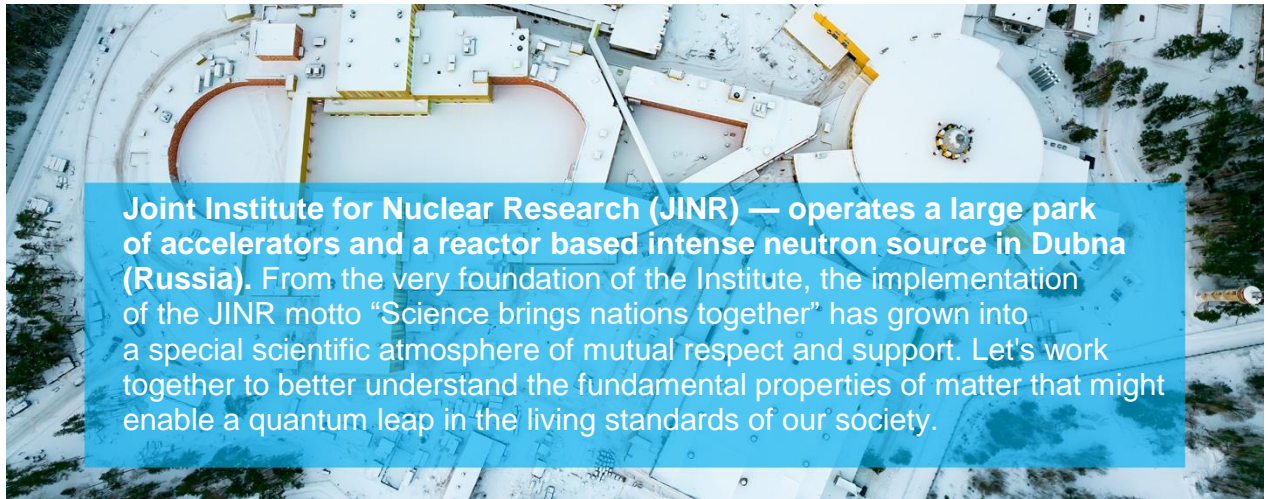
2300 USD per month, paid in Russian rubles at the planned exchange rate (forecasted year-average), which is adopted with the JINR budget for the current year. In 2024, the exchange rate is 90.1 Russian rubles per 1 USD.

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

### Benefits

We offer considerable social benefits: settling-in allowance, air fare (except for family members), free local health insurance for you and your family members, relocation assistance (under certain conditions), free public school or kindergarten attendance for children. We also offer free Russian 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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