



## **Postdoctoral Programme in Confocal Microscopy**

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

### **Your mission**

Research activities in the Laboratory of Radiation Biology cover a broad range of experimental models and outcomes, such as molecular, cell culture and laboratory animal models, employing a variety of modern biology technologies, including transmissions, fluorescence, confocal laser scanning and electron microscopy. The main objective of the proposed position is to consolidate studies in this area of research by developing, establishing, expanding and supporting experimental methodologies related to confocal laser scanning and other modern ultra-high resolution microscopy.

### **Your tasks**

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

- Operation of confocal microscope, performing regular quality control and maintenance, alignment, communication with technical service
- In cooperation with research radiobiologists, design, implementation and analysis of radiobiological experiments using flow cytometry techniques.
- Developing and implementation of protocols for preparation of specimens/slides for confocal laser scanning microscopy.
- Acquisition of confocal laser scanning microscopy images, analysis and interpretation of these images in the context of radiobiological effects.
- Establishment of advanced high resolution optical microscopic techniques.
- Provision of technical assistance and training to other researchers in the Laboratory in operation of confocal microscope and interpretation of microscopy images.

### **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 biology, biochemistry or another position relevant field.
- Age under 40, have not had more than 3 temporary positions.
- Strong background in cellular and molecular biology and biochemistry, either academical or acquired through previous employment is a prerequisite.
- Practical experience working in biological laboratory.
- In-depth knowledge and proven experience in microscopy, especially advanced optical microscopy techniques.
- Analytical and problem solving skills.
- Proficiency in using image analysis software.
- As an international intergovernmental research organization, we are particularly keen to ensure that we also attract applicants from outside Russia. You must have a good knowledge of English and be willing to learn Russian (a language course will be paid for by JINR).

*\* Winners of last year's JINR Postdoctoral Programme and JINR Fellowship Programme who were previously employed at JINR are not eligible to participate in the contest again, as current JINR employees.*

- *Candidates from JINR Member States are considered for employment at the Institute by nomination from JINR Member States Plenipotentiary Representative.*

## 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, adopted in the JINR budget for the current year, which is fixed on the date of conclusion of the contract and valid throughout its entire term). In 2026, the exchange rate is 92.2 Russian rubles per 1 USD.\*

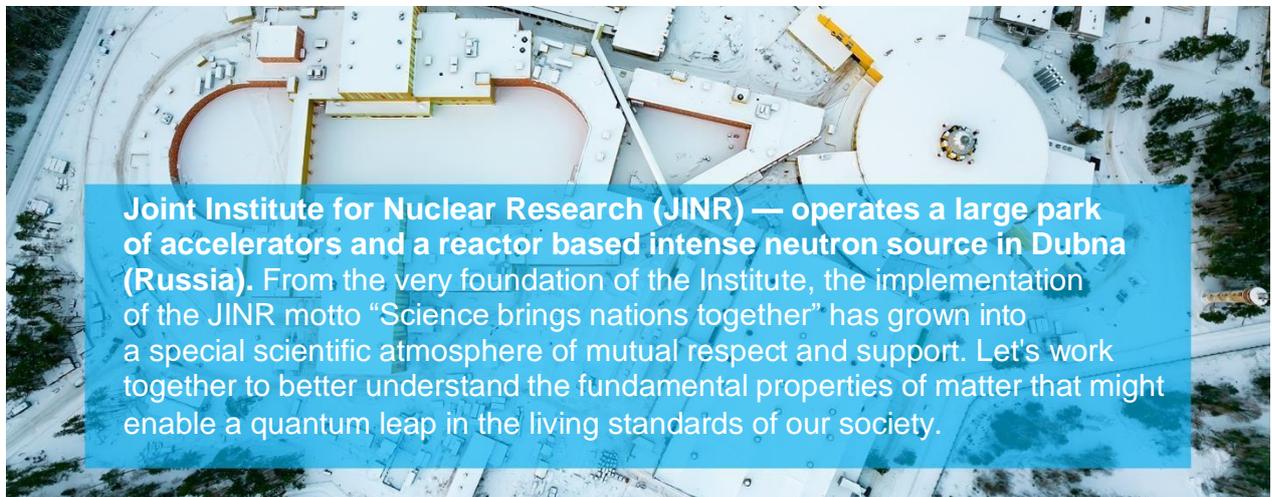
Income tax of 13% is applied. The employer shall pay no pension insurance.

\*The average per capita income in the Moscow region is 110 thousand rubles.

## Benefits

We offer considerable social benefits: annual paid leave of 42 calendar days with an additional one-time payment of 50 % of your monthly salary after one year of work, air fare (except for family members) at the beginning and the end of the employment period in case the terms of the contract are fulfilled, accommodation (50 %, without cost of utilities and furniture rental), free local health insurance for you and your family members, relocation assistance (reimbursement of the cost of excess baggage and transfer from/to airport at the beginning and end of the contract for all family members). We also offer free Russian courses and subsidies for the use of JINR sports infrastructure (Olympic swimming pool, stadium, gym, climbing wall, 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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