



**Job ID: #JOB 29/2022**

## Job Description

**Job Title:** Postdoctoral fellow in theoretical biophysics

**Job Summary:**

Aggregation and gellation molecular dynamics simulations of the intrinsically disordered proteins

**Job Description:**

In recent years, there has been a tremendous interest in the properties of the intrinsically disordered proteins, primarily in the context of the neurodegenerative diseases. Oftentimes the solutions of these proteins undergo liquid-liquid phase transitions that result in the formations of the proteinaceous droplets. The droplets act as membrane-less organelles that provide a more concentrated environment to perform various biological functions. The idea of the project is to combine basic research on such systems with applications of the droplets in the fish aquacultures to capture toxins that plague breeding of salmon and other species. The applicational aspects are studied in H2020 project PathoGelTrap in which the group is engaged. The H2020 project, for our group, involves simulations within all-atom and coarse-grained models.

**Requirements:**

- Ph.D. degree in physics, chemistry, biophysics (or an equivalent degrees);
- Very good knowledge of a programming language (e.g. Fortran, C/C++, Python)
- Programming skills within the Linux environment (including scripting languages)
- Sufficient proficiency in the English language that scientific interaction is not hindered;
- Research experience in theoretical physics, chemistry or computer science;
- Experience with biological issues;
- Experience in numerical simulation in physics or chemistry;
- Diligence at work and consistency in achieving results;
- Ability to work as a team member and effectively communicate.

**Main research field:** Physics

**Sub Research Field:** Biophysics

**Career Stage:** Experienced researcher or 4-10 yrs (Post-Doc)

**Research Profile ([details](#)): Recognised Researcher (R2)**

**Type of Contract: Temporary** (9 months)

**Status: Full-time**

**Salary:** Approximately 9 850 PLN per month (before ~ 30% taxes, exact amount depends slightly on applicable social security contributions).

## Contact

More information can be obtained from dr Mateusz Chwastyk (e-mail: [chwastyk@ifpan.edu.pl](mailto:chwastyk@ifpan.edu.pl)).

## Application details

**Application deadline:** August 1, 2022. Applications sent after the deadline will not be considered.

### Required materials:

- **Curriculum Vitae**
- **List of publications**
- **Motivation letter**
- **Contact data (e-mail) to at least two potential referees.**
- **If applicable - documents confirming scientific stays in foreign institutions (foreign relative to the country of your doctoral degree).**
- **Consent to process your personal data (expressed on the form attached to this announcement)**
- **Certificate of obtaining a doctorate issued by an institution recognised in Poland. In the case of institutions not recognised in Poland, the doctorate will have to be notified before employment.**

All materials should be submitted in electronic form to the address: [rekrutacja@ifpan.edu.pl](mailto:rekrutacja@ifpan.edu.pl) with Job ID in the subject.

## DATA PROCESSING UNDER CONSENT FOR THE PURPOSES OF RECRUITMENT

Under Art. 13 sections 1 and 2 of the Regulation of the European Parliament and of the Council (EU) 2016/679 of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Resolution), EU OJ L 119 of 04.05.2016, page 1, as amended, hereinafter referred to as "GDPR", we hereby inform as follows:

1. The Data Controller of the provided personal data is the Institute of Physics of the Polish Academy of Sciences, Al. Lotników 32/46, 02-668 Warsaw, phone (22) 116-2111, e-mail [director@ifpan.edu.pl](mailto:director@ifpan.edu.pl).
2. Contact details to the Data Protection Officer are as follows: e-mail [iodo@ifpan.edu.pl](mailto:iodo@ifpan.edu.pl)
3. Your personal data shall be processed for the purpose of carrying out the recruitment process for the position of POST-DOC.
4. Processing of your personal data in scope of: full name, date of birth, correspondence address, information about education and course of past employment shall take place under Art. 22<sup>1</sup> § 1 of the Act of 26 June 1974 - Labour Code. In the scope in which you sent to us more personal data than indicated above, we process your data under the consent granted by you.
5. Your personal data shall be stored for 1 month from completion of the recruitment process. If you grant consent for processing of personal data for future recruitments, we shall process your data until withdrawal of the consent by you, however, no longer than for the period of 6 months from the day of submittal of the application by you.
6. Provision of the abovementioned data in the scope indicated above is a statutory requirement resulting from Art. 22<sup>1</sup> § 1 of the Act of 26 June 1974 - Labour Code, in the remaining scope it is voluntary. Failure to provide the data referred to in Art. 22<sup>1</sup> § 1 of the Act of 26 June 1974 - Labour Code precludes consideration of your candidacy for the offered position.
7. You have the right to access your personal data, to rectify them, erase them, restrict their processing.
8. You may submit a complaint to the Inspector General for the Protection of Personal Data.
9. You have the right to withdraw the consent to process your personal data in the scope in which they were provided at any time. Withdrawing the consent does not affect the lawfulness of processing carried out on the basis of consent before its withdrawal.

Consent content:

*I grant my consent to the Institute of Physics of the Polish Academy of Sciences to process my personal data contained in the sent recruitment documents for the purpose of carrying out the recruitment process for the position of POST-DOC.*

If you want us to consider your candidacy also in the future recruitment processes, please grant the additional consent:

*I grant my consent to the Institute of Physics of the Polish Academy of Sciences to process my personal data contained in the sent recruitment documents in future recruitment processes taking place during 6 months from the day of appearance of this job advertisement.*