



Job ID: #JOB 12/2021

Job Description

Job Title: Postdoctoral fellow in theoretical biophysics

Job Summary:

Aggregation and gellation 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 involve such droplets in the fish aquaculture to capture toxins that plague breeding of salmon and other species. Ultimately, the aim of the project is to design novel ways to control diseases of fish in aquaculture. The idea is to use selected antibodies connected to some intrinsically disordered proteins to bind with toxins. Due to the presence of the disordered segments, such objects would first form droplets and then transform into gels. The gels will be removed from the aquaculture. Such a capture of toxins is expected to replace the current widespread application of antibiotics. This is an European H2020 project involving two laboratories in Spain, one in Italy, one in France, one in Ireland, and IFPAN. The IFPAN group is the only unit in the consortium that is supposed to provide theoretical modelling. The modelling will be based both on all-atom and coarse-grained simulations. The latter will be based on the available in-house programs.

Requirements:

- A willingness to advance numerical skills.
- Research experience in theoretical physics, chemistry or computer science.
- Experience with biological issues
- Ph.D. degree in biophysics, physics, chemistry, biophysics (or an equivalent degrees).
- Sufficient proficiency in the English language that scientific interaction is not hindered.

Main research field: Physics

Sub Research Field: Biophysics

Career Stage: postdoc

Research Profile ([details](#)): Second Stage Researcher R2

Type of Contract: fixed term (6 months)

Status: 75% contract

Salary: 11 500 PLN per month – about 6 900 PLN after all taxes.

Contact

More information can be obtained from Marek Cieplak (e-mail: mc@ifpan.edu.pl).
<http://www.ifpan.edu.pl/~cieplak>

Application details

Application deadline: March 11 2021; Later applications will not be considered

Required materials:

- Curriculum Vitae
- List of publications
- Consent to process your personal data
- Two recommendation letters sent directly to mc@ifpan.edu.pl
- A scan of the Ph.D. diploma (or of an equivalent degree) or an information about the date of the Ph.D. defence.

All materials should be submitted in electronic form to the address: jobs@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.
2. Contact details to the Data Protection Officer are as follows: e-mail iodo@ifpan.edu.pl
3. Your personal data shall be processed for the purpose of carrying out the recruitment process for the position of
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. 22¹ § 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. 22¹ § 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. 22¹ § 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

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.