



HR EXCELLENCE IN RESEARCH

FORM FOR EMPLOYERS

INSTITUTION	UNIVERSITY OF WARSAW, FACULTY OF PHYSICS
CITY	WARSAW, POLAND
POSITION	ASSISTANT PROFESSOR (POSTDOC)
GROUP	RESEARCH
DISCIPLINE	PHYSICAL SCIENCES
NUMBER OF POSITIONS	1
POSTED	July 11th, 2024
EXPIRES	September 13th, 2024
WEBSITE	www.fuw.edu.pl
KEY WORDS	Liquid crystals, electric double layers, ions

DESCRIPTION (field, expectations, comments):

A postdoc position in modelling of ionic effects in liquid crystals is available at the Institute of Theoretical Physics at the University of Warsaw. The position will be realised within the SONATA BIS 13 project: “Nematic electrolytes in and out of equilibrium: Effects of anisotropy, ferroelectricity, and activity”

The postdoc position is for a period of 1 year and up to 2 years after positive evaluation.

We are looking for a talented and enthusiastic physicist or applied mathematician to join the new group of dr. Jeffrey Everts. The successful candidate will study the in- and out-of-equilibrium effects of ions in various kinds of anisotropic fluids, like nematic liquid crystals, nematic ferroelectrics, and chiral active fluids. The main methods consist of a combination of continuum modelling (Landau expansions, modified Poisson-Boltzmann) and simulations (Monte Carlo, Molecular Dynamics). Proficiency in analytical and numerical methods is desired. Experimental collaborations are possible with the University of Ljubljana and the Jožef Stefan Institute, Slovenia. Our models will be employed to guide and interpret our collaborator’s ongoing experiments.

Currently, we have the methodology developed for dilute ionic solutions in nematic liquid crystals. See PRX 11, 011054 (2021), Sci. Adv. 7, eabd0662 (2021), PRL 125, 037801 (2020), and PRL 130, 168102 (2023) as examples of our recent work.

The candidates have to conform to the conditions stated in art. 113 of Higher Education Law dated 20.07.2018 (Journal of Laws of the Republic of Poland 2023, item 742 with subsequent amendments).

The requirements:

- A PhD degree in Physics, Applied Mathematics, or related.
- Proficiency in both written and oral English.
- Personal suitability and motivation for the position.
- Strong background in statistical mechanics, theory of phase transitions.
- Strong skills in mathematics and analytical derivations.
- Programming skills.
- Knowledge on numerical methods for solving partial differential equations is desired. For example, finite-element or finite-volume methods.

The candidate must meet the conditions set by the National Science Center for people employed in a post-doc position. In particular, the person employed for this position must have a doctoral degree obtained no earlier than 7 years before the year of employment in the project. This period does not include breaks related to maternity leave, additional maternity leave, leave on the conditions of maternity leave, additional leave on the conditions of maternity leave, paternity leave, or parental leave granted on the terms specified in the provisions of the Labor Code or the receipt of sickness allowance or rehabilitation benefits in connection with incapacity for work, including those caused by diseases requiring medical rehabilitation. For women, the indicated 7-year period may be extended by 18 months for each child born or adopted. A woman can choose a more favourable way to indicate breaks in her scientific career.

The employment will take place in accordance with the NCN regulations, in particular the employed person must meet the following conditions jointly:

- the principal investigator was not a supervisor or assistant supervisor of her doctoral dissertation;
 - their PhD degree has been awarded by another institution than the one planned to employ them at this post or they have completed a continuous and evidenced post-doctoral fellowship of at least 10 months in another institution than the host institution for the project and in another country than the one in which they have been conferred a PhD degree;
 - at the time of receiving remuneration, they will not be receiving any other remuneration paid from the funds granted to research projects under NCN calls under the heading of direct costs;
 - in the period of receiving the remuneration they will be receiving no remuneration from another employer pursuant to an employment contract, including an employer with registered office outside of Poland;
 - during the period of receiving this remuneration, he will not receive retirement benefits from the social security system;
- will be employed for at least 6 months.

Key responsibilities:

- Conducting scientific research within the theory of ionic effects in liquid crystals at an internationally respected level.
- Developing models to describe electric double layers in anisotropic fluids in and out of equilibrium.
- Solving models using analytical and numerical methods.
- There is room to also perform simulation studies.
- Collaboration with experimental colleagues.
- Presenting results at national and international conferences.

Employment details:

Full-time work, duration of employment: 12 months with a possibility of extension for 12 months, workplace: Institute of Theoretical Physics, Faculty of Physics, University of Warsaw.

The candidate should provide the following documents:

1. Application for the position - *the pdf-format with a scanned signature.*
2. Information on the processing of personal data - information clause and consent clause - attachment to the announcement (available on the website https://bsp.adm.uw.edu.pl/wp-content/uploads/sites/18/2021/01/Klauzula-informacyjna-przy-rekrutacji-do-pracy_11_2019_EN.docx) - *the pdf-format with a scanned signature.*
3. Statement on reading and accepting the rules for job applications for a position of an academic teacher at the University of Warsaw (available on the website <https://www.fuw.edu.pl/dokumenty-i-formularze.html>) - *the pdf-format with a scanned signature.*
4. Motivation letter.
5. Copy of PhD diploma or certificate of awarding the PhD degree.
6. CV including information on scientific activities, achievements, and research interests.
7. List of publications.
8. Email address of at least two researchers, acquainted with the scientific activity of the candidate and ready to prepare a referral letter.

The candidate should provide all documents to jeffrey.everts@fuw.edu.pl.

The entire procedure will be concluded before **September 30th, 2024**. The candidate might be asked for an interview with the commission appointed by the Dean of the Faculty.

Every applicant will individually be informed on the results of the procedure by e-mail.

The successful candidate must provide all the required documents before the employment starts.

This announcement is the first step in the procedure of employing an academic teacher and its positive result will be a base for consecutive steps.

Name and Surname

Information on personal data processing

Controller

Controller of your personal data processed in connection with the recruitment process is the University of Warsaw, ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa, as the Employer.

Contact with the controller:

- by traditional mail at: University of Warsaw, ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa (name the organizational unit to which your letter is addressed);
- by phone: 22 55 20 355.

Data Protection Officer (DPO)

Controller has designated Data Protection Officer whom you may contact via email at iod@adm.uw.edu.pl. You may contact the DPO in all matters relating to your personal data processing by the University of Warsaw and the exercise of rights in relation to the processing of personal data.

The DPO, however, does not proceed other matters, like handling recruitment procedures, collecting recruitment documents, providing information on current recruitment process.

Purpose and legal grounds of data processing

Personal data of candidates for employment shall be processed for recruitment purposes only.

Your personal data shall be processed in the scope as indicated by employment law¹ (*given name (names) and family name, date of birth, contact information as provided, education, professional qualifications, previous employment*) for the purposes of this recruitment process², whereas other data³ shall be processed based on your consent which may take the following wording:

I agree to the processing of personal data provided in (e.g. CV, cover letter, and other submitted documents) by the University of Warsaw for realising my recruitment process.

If your documents include data as mentioned in Art. 9 section 1 of the GDPR (special categories of personal data), processing shall be possible upon your consent to processing such data⁴ which may take the following wording:

I agree to the processing of special categories of personal data, as mentioned in Art. 9 section 1 of the GDPR, provided in (e.g. CV, cover letter, and other submitted documents) by the University of Warsaw for realising my recruitment process.

The University of Warsaw shall be also processing your personal data in future recruitment processes upon your consent⁵ which may take the following wording:

¹ Art. 22¹ of the law of June 26, 1974 Labour Code (i.e. Journal of Laws 2019 item 1040 with subsequent changes);

² Art. 6 section 1 letter b of the Regulation of the European Parliament and the Council (EU) 2016/679 of April 27, 2016 on protection of individual persons with regard to the personal data processing and on the free flow of such data, and also repealing Directive 95/46/EC (general regulation on data protection) (Official Journal EU L 119 of 04.05.2016, page 1, with subsequent changes) (hereinafter as the GDPR);

³ Art. 6 section 1 letter a of the GDPR;

⁴ Art. 9 section 2 letter a GDPR;

⁵ Art. 6 section 1 letter a GDPR;

I consent to processing of my personal data for the purposes of any future recruitment processes at the University of Warsaw for the period of the next nine months.

You may revoke all such consents at any time by, for example, sending an email at jeffrey.everts@fuw.edu.pl (email address due for the recruitment process).

Be advised that the revocation of your consent does not affect legal compliance of processing which had been completed upon consent before its revocation.⁶

Data retention period

Your personal data collected in this recruitment process shall be stored over the period of three months from the date the recruitment process is completed.

In case you agree to process your data in future recruitments, your data shall be used over the period of nine months.

Data recipients

Officers authorized by the Controller shall have access to your personal data, the processing of which is in the scope of their duties.

Recipients of personal data may be other subjects obligated by the Controller to provide specific services involving data processing, like members of the competition committee.

(name all recipients of data)

Data transfer outside the European Economic Area (EEA)

Your personal data shall be disclosed to subjects authorized by law. Signing-in is through Google Forms. Your personal data may be also processed by our provider of G-Suit for education by Google Company in their data processing centres.⁷ Your data shall be protected under the standards of the Privacy Shield, accepted by the European Commission.⁸ This shall guarantee an adequate level of data security.

Rights of the data subject

Under the GDPR data subjects have the following rights:

- *to access data and to receive copies of the actual data;*
- *to correct (rectify) your personal data;*
- *to restrict processing of personal data;*
- *to erase personal data, subject to provisions of Art. 17 section 3 of the GDPR;*
- *to file a claim with the [President of the Personal Data Protection Office, if you](#) believe data processing violates law.*

Information on the requirement to provide data

Providing your personal data in the scope resulting from law is necessary to participate in the recruitment process. Providing other personal data is voluntary.

.....
place and date

.....
applicant's signature

⁶ Art. 7 section 3 GDPR;

⁷ <https://www.google.com/about/datacenters/inside/locations/index.html>

⁸ <https://www.privacyshield.gov>