



Institute of Physics of the Polish Academy of Sciences

Scholarship for a PhD Student



Job ID: #JOB23/2019

Job Description

Job Title: PhD student

Job Summary:

Theoretical and numerical study of ultracold quantum droplets

Job Description:

The student will join the Quantum Noise group under the supervision of dr hab. Piotr Deuar, working on the NCN funded project “Quantum droplets from first principles”. The aim of the PhD project are studies of quantum droplets on a new level of accuracy using new methods recently developed in the group. This includes:

- * Simulation of single droplets.
- * A better understanding of their behaviour.
- * Accurate explanation of the experimental observations (size, phase diagram,...).
- * Study of droplet properties that were previously inaccessible (life cycle, evaporation, critical velocity, surface and hydrodynamic properties...).

In this, we will collaborate with the leading experimental group in Barcelona and theoreticians from IFPAN, Newcastle, and New Zealand.

Requirements:

- A willingness to learn numerical skills.
- Experience with numerical computation will be an advantage.
- A good knowledge of physics, particularly quantum physics from the theory side will be helpful, as will previous experience with ultracold gases or quantum optics.
- Sufficient proficiency in the English language that scientific interaction is not hindered.
- Ultimately, to be employed, the candidate must be accepted into the PhD school in which the Institute of Physics participates. Recruitment to the School takes place online at warsaw4phd.eu. The deadline for submitting applications to the school in the current round of recruitment is 21 June 2019.

Main research field: Physics

Sub Research Field: Ultracold quantum gases

Career Stage: Early stage researcher or 0-4 yrs (Post-graduate)

Research Profile ([details](#)): First Stage Researcher (R1)

Type of Contract: Fixed term (36 months)

Status: Full-time

Salary: 4500 PLN per month (untaxed NCN Scientific Scholarship, before obligatory employer and employee social security contributions).

Contact

More information can be obtained from

Pior Deuar (e-mail: deuar@ifpan.edu.pl)

<http://www.ifpan.edu.pl/~deuar/>

Please make contact.

Application details

Application deadline: 21.6.2019 Later applications may be also considered.

Required materials:

- Scientific CV
- Cover letter
- Consent to process your personal data (form below)

All materials should be submitted in electronic form to the address: jobs@ifpan.edu.pl with Job ID in the subject, or by application to the PhD school warsaw4phd.eu, choosing the project: 3.3 "Quantum droplets from first principles".

Results regarding the position will be made available by 20 July 2019.

If the position is not filled, applications submitted after the initial deadline will be considered, and require recruitment into the PhD school in the next round (in August).

Information clause in the process of recruitment for studies

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, i.e. the entity deciding how your personal data are used, is the Institute of Physics of the Polish Academy of Sciences, represented by the Director, with its registered office in Warsaw Al. Lotników 32/46. You can contact the Data Controller using one of the contact forms available at: phone (22) 116-2111, e-mail director@ifpan.edu.pl.
2. The Director of the Institute of Physics of the Polish Academy of Sciences has appointed a Data Protection Officer (DPO) with whom you may contact in matters regarding your personal data. You may contact the Officer sending an e-mail to: iodo@ifpan.edu.pl
3. Your personal data shall be processed in order to perform the process of recruitment for studies;
4. The basis for processing of your personal data are provisions of the Act on Higher Schools and Education (consolidated text: Journal of Laws of 2018, item 1668);
5. Your personal data shall be processed for the period of 6 months upon completion of the recruitment process and in case of admission to studies, according to the course of the studies, and then they shall be archived according to the applicable provisions;
6. Your personal data shall not be made available to any other entities save for entities authorised under the provisions of the law. Employees and members of the university recruitment committees authorised by the Data Controller will have access to your personal data;
7. Providing personal data by you is voluntary, but failure to provide them precludes participation in the recruitment process;
8. You have the right to access the contents of your personal data and you have the right to rectify them, erase them and restrict their processing;
9. You can submit a complaint to the Inspector General for the Protection of Personal Data if you find that their processing violates provisions of the General Data Protection Regulation.

Consent for processing:

I grant my consent for processing of my personal data by the Institute of Physics of the Polish Academy of Sciences in order to ensure conditions of full participation in the process of recruitment for studies. I provide the personal data voluntarily and declare that they are true. I have familiarised myself with the content of the information clause, including the information about the purpose and methods of processing of personal data and right to access the content of my data and the right to rectify them.

.....
Date, candidate's signature