



# Institute of Physics of the Polish Academy of Sciences

## Scholarship for a PhD Student



**Job ID: #JOB34/2018.**

### Job Description

**Job Title:** PhD student in molecular biophysics

**Job Summary:**

Properties and interactions of natively disordered proteins engaged in gene silencing

**Job Description:**

The PhD student will participate in the NCN Sonata-Bis project "Studies of interactions and dynamics of intrinsically disordered proteins in crucial biological processes - biophysical perspective including single molecule approach". The project is focused on investigation the interactions and properties of the natively unstructured silencing domain of the GW182 protein (glycine-tryptophan protein of 182 kDa) engaged in miRNA-mediated gene silencing, on the molecular level. Since intrinsically disordered proteins can adopt a wide spectrum of conformations, they comprise an important group of "molecular switches", where the partial or total lack of the defined structure plays a crucial role due to the possibility of a flexible fit to the interacting protein partner or ligand.

The PhD studies will be conducted according to the rules at IP PAS:

[http://info.ifpan.edu.pl/msdifpan/Studium/index\\_en.html](http://info.ifpan.edu.pl/msdifpan/Studium/index_en.html)

Profile of a candidate for the PhD position:

1. Student of master's degree studies in one of the following disciplines: biophysics, physics, biochemistry, molecular biology, chemistry or biotechnology; master's degree to be obtained no later than November 30, 2018
2. High grades in core subjects at the master's level studies
3. Passing courses both in physics and biology at academic level
4. Knowledge of experimental techniques in molecular biophysics
5. Experience in laboratory work with proteins
6. Interest in biophysics, ability to work in an interdisciplinary team
7. Analytical thinking, diligence in work
8. Good spoken and written English skills
9. Ability to work under a pressure of time
10. High motivation for scientific work (publications, conference presentations or other achievements are highly welcome),

**Main research field:** Physics, Biology, Chemistry

**Sub Research Field:** Biophysics

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

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

**Type of Contract:** Temporary for four years

**Salary:** 3000 PLN per month (untaxed scholarship)

## Contact

More information can be obtained from dr hab. Anna Niedźwiecka, prof. IF PAN (e-mail: [annan@ifpan.edu.pl](mailto:annan@ifpan.edu.pl)); ResearcherID: E-8940-2010  
<http://www.ifpan.edu.pl/SL-4/index.php?group=niedzwiecka>

## Application details

**Application deadline:** 17 August 2018 **Later applications may also be considered.**

### Required materials:

- Curriculum Vitae
- List of publications, conference presentations and other achievements (if any)
- Letter of motivation
- Transcript of record from undergraduate studies (both BSc and MSc level)
- Reference contact person(s) (with phone number(s) and e-mail address(es))

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