



# Institute of Physics of the Polish Academy of Sciences Scholarship for a PhD Student



**Job ID: #JOB1/2018**

## Job Description

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

**Job Summary:**

Properties and interactions of natively disordered proteins engaged in biomineralization

**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 of the natively unstructured coral acid-rich proteins that bind calcium in the skeletal organic matrix, 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. MSc university degree in one of the following disciplines: biophysics, physics, biochemistry, molecular biology, chemistry or related (e.g. biotechnology)
2. High motivation for scientific work (publications, conference presentations or other achievements are highly welcome)
3. Experience in laboratory work in biophysics, molecular biology or biochemistry
4. Interest in biophysics, ability to work in an interdisciplinary team
5. Analytical thinking, diligence in work
6. Good spoken and written English skills

**Main research field:** Physics, Biology

**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 (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:** 23 February 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
- 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.