



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



Job ID: #JOB19/2017

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". Since they can adopt a wide spectrum of conformations, intrinsically disordered proteins 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 project is focused on the dynamical biopolymer properties on the molecular level, in particular on investigation the interactions of the natively unstructured coral acid-rich proteins that bind calcium in the skeletal organic matrix. The PhD studies will be conducted according to the rules at IP PAS:

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

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); ResearcherID: E-8940-2010

<http://www.ifpan.edu.pl/SL-4/index.php?group=niedzwiecka>

Application details

Application deadline: 15 September 2017 **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 with Job ID in the subject.