



Consortium Faculty of Chemistry, Warsaw University of Technology and IBB PAS is looking for a PhD candidate in National Science Centre (NCN) funded project “Role of mobile elements in bacteria metabolism. Dynamic alpha-helical polymers of Kfr-type plasmidic proteins in organization of prokaryotic mitotic spindle”

Dr Małgorzata Adamczyk (Project coordinator), Department of Drug Technology and Biotechnology, Faculty of Chemistry, Warsaw University of Technology

prof. dr hab. Grażyna Jagura-Burdzy, Department of Microbial Biochemistry, Institute of Biochemistry and Biophysics PAS

PhD position at Department of Drug Technology and Biotechnology

Faculty of Chemistry, Warsaw University of Technology, Poland

The position is available for the period 2016-2019 (36 months)

Position starts: September 2016

Research fellowship: 3000PLN/monthly

The project “Role of mobile elements in bacteria metabolism. Dynamic alpha-helical polymers of Kfr-type plasmidic proteins in organization of prokaryotic mitotic spindle” is multidisciplinary and focused on the role of Kfrs in plasmid and host biology.

The Kfr-type proteins belong to non-globular proteins (NGPs), which contain tandem repeats and low-complexity sequences. The *kfr* genes are conserved on plasmids belonging to the various incompatibility groups and are part of the plasmid backbones, that adapt to different host bacterial species, so-called broad-host-range (BHR) plasmids. Some of them are specific DNA binding proteins. The structural and functional studies on Kfrs encoded on representative BHR plasmids should elucidate the mechanism of Kfrs action facilitating BHR plasmids stability in diverse hosts and bridge the mechanism of mobile elements segregation process with bacterial metabolism.

Experimental work will be carried out in collaborations with Prof. Grażyna Jagura-Burdzy at the Institute of Biochemistry and Biophysics PAS, Warsaw, Poland and dr David Savage at the UC Berkeley, USA.

Profile of candidates for the position:

1. Applicants should hold a Master of Science degree in biology, biochemistry or biotechnology
2. Curiosity, research passion and motivation for scientific achievements

3. Very good background in molecular biology techniques (at least one year experience in experimental work: MSc project, internship etc.)
4. Experience in biophysical techniques would be advantageous
5. Ability to communicate and write in English

Additional information



Required documents

1. CV including
 - internships in research institutions
 - list of publications
 - participation in scientific conferences
2. Letter of intent (maximum 1 page)
3. Letter of reference (preferentially from Master's diploma supervisor)
4. Copy of Master's diploma
5. University marks from Bachelor's and Master's degree courses
6. The candidates may include additional information or copies of documents/certificates in support of the application

Applications in English (pdf format) should be sent to madamczyk@ch.pw.edu.pl

Please include in your application: "In accordance with the personal data protection act from 29 th August 1997, I hereby agree to process and to store my personal data by the Institution for recruitment purposes".

Application procedure

The candidates will be evaluated on the basis of scientific excellence criteria and previous experience in research. **Only selected candidates will be invited for an interview.**

Candidates interested in joining the group are highly encouraged to contact madamczyk@ch.pw.edu.pl for informal enquiries.

Application deadline: 5th of September, 2016