CORE FACILITY FOR CRYSTALLOGRAPHY AND BIOPHYSICS

University of Warsaw Biological and Chemical Research Centre

3 MSc Student positions available!

The project "*Core facility for crystallographic and biophysical research to support the development of medicinal products*" is funded by the **TEAM-TECH Core Facility** programme from the **Foundation for Polish Science**. The project will establish a **Core Facility for Crystallography and Biophysics** (CFCB) at the Biological and Chemical Research Centre, University of Warsaw under the supervision of **Prof. dr hab. Krzysztof Woźniak**.

We are looking for:

1 MSc Student in the biology ("**BIO**") and **2 MSc Students in the chemistry** ("**CHEM**") CFCB pipelines.

The mission of the new Facility will be analysis of proteins and small chemical compounds (molecules) leading to crystallization trials for academic and commercial users. The project will enable the study of challenging biochemical and pharmaceutical problems, with emphasis on drug development and collaborations with the local research groups. Work at CFCB will be carried out in an interdisciplinary way, including both wet chemistry and biology techniques, as well as theoretical approaches including structure modelling, bioinformatics and computational methods. Biology ("BIO") and chemistry ("CHEM") team members will work in synergy complementing their knowledge, skills and experience. Apart from services and collaborations, MSc students are expected to carry out research projects in either small-molecule or protein crystallography. Young scientists working in the project will have the benefit of mentoring and exchange visits with the project partners, Wladek Minor (University of Virginia, USA) and Ben Luisi (University of Cambridge, UK). Work at CFCB will consist in collaborations with biotech/pharmaceutical companies, such as WPD Pharmaceuticals or the Pharmaceutical Institute in Warsaw.

Candidate's profile:
- BSc. or Eng. degree in biology ("BIO") or chemistry ("CHEM") or a related subject
- Documented experience working in biology ("BIO") or chemistry ("CHEM") laboratories
- Knowledge of molecular biology ("BIO") or structural analysis of small-molecule crystals ("CHEM")
- Knowledge of crystallography and diffraction measurements will be considered a strong advantage
- Good level of written and spoken English

Application should include:
- Motivation letter, Curriculum Vitae, Copy of BSc Diploma, Academic transcripts, Letters of recommendation.

Candidate should expect:
- Scholarship - 1 500 PLN/month for 12 months, starting from October 2018.
- Participation in scientific schools, workshops and conferences.

We expect from candidate:
- To conduct structural analysis and interpretation of measurement results, especially in macromolecular crystallography ("BIO").
- To conduct routine X-ray structural analysis and interpretation of measurement results, especially in small-molecule crystallography, experimental and theoretical electron charge density investigations, application of quantum crystallography approaches (HAR), *ab initio* crystal and molecular structure computing ("CHEM").
- Operation and maintenance of all equipment in the "BIO" or "CHEM" pipeline, ordering and preparing reagents, using established protocols, performing and writing analyses, data and sample management.
- Liaising, answering and reporting to customers, collaborators and co-workers, project promotion, result dissemination.

Selected candidates will be invited for an interview in English, in person or via Skype, around mid-September 2018.

Applications should be submitted to Prof. dr hab. Krzysztof Woźniak by e-mail: cfcbuw@cnbc.uw.edu.pl not later than September 10, 2018.

Please include in your offer: "I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended."

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