

## 2 PhD 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 PhD student in the biology (“BIO”)** and **1 PhD student 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, PhD students are expected to carry out their own 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.

### Candidate's profile:

- MSc. or M.Sc. 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”)
- Advanced knowledge of crystallography and diffraction measurements will be considered a strong advantage
- Publications in the area of CFCB activities will be an additional advantage
- Experience working in a collaborative setting, preferentially with services involved
- Good level of written and spoken English

### Application should include:

- Motivation letter, Curriculum Vitae, Copy of MSc Diploma, academic transcripts, Letters of recommendation.

### Candidate should expect:

- PhD scholarship - 4 500 PLN/month gross (ca. 4000 netto) monthly for 35 months, starting from March 2018.
- To participate in scientific schools, workshops and conferences.
- To conduct advanced structural analysis and interpretation of measurement results, especially in macromolecular crystallography, solving crystal structures of proteins, bioinformatics and structure modelling (“BIO”).
- To conduct advanced structural analysis and interpretation of measurement results, especially in small-molecule crystallography, electron charge density studies, 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/phone, around mid-February 2018.

**Applications should be submitted to Prof. dr hab. Krzysztof Woźniak by e-mail: [cfcbuw@cnbc.uw.edu.pl](mailto:cfcbuw@cnbc.uw.edu.pl) not later than February 11, 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.”