

## Postdoctoral Researcher position 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**.

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 and chemistry team members will work in synergy complementing their knowledge, skills and experience. Apart from services and collaborations, postdoctoral and PhD researchers 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:

- PhD degree in chemistry related to structure studies of small molecules
- Documented knowledge of methods of structural and charge density X-ray investigations including multipole refinement of small molecule crystals of pharmaceutical and medical substances
- Experience in experimental macromolecular X-ray structural analysis including synchrotron data collection and processing for protein single crystals
- Experience in protein structure solution and refinement against high resolution data using transferable aspherical atom model
- Knowledge and experience of homology modelling, structure prediction methods and molecular dynamics simulations
- Excellent scientific track, including publications in top journals and highly collaborative projects
- Documented management of structural chemistry or biology projects, preferentially as project leader
- Experience in working in an international setting, preferably with long-term research stays abroad
- Fluent written and spoken English

### Application should include:

- Motivation letter, Curriculum Vitae, Copy of PhD Diploma, at least one Letter of recommendation.

### Candidate should expect:

- A full time contract of employment 13 000 PLN gross (ca. 7500 netto + 13<sup>th</sup> salary) monthly for 33 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 small molecule and macromolecular crystallography, solving crystal structures of proteins, bioinformatics and structure computing.
- To teach young scientists to learn structural methods.
- Reporting to collaborators and customers, 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.”