



UNIwersYTET
WARSAWski

Wydział Chemii



Wydział Chemii
Uniwersytet Warszawski

WCH.1210-...../2020

An announcement for **adjunct (postdoc)** position

High paying position for **adjunct (post doc)** who will develop new models and software in a project at borderline of crystallography and computational chemistry entitled "**Advancing quantum crystallography for better insight into structure and properties of crystals**" financed by **National Science Centre (NCN)** is open for application.

Project leader: **Prof. dr hab. Krzysztof Woźniak**

Grant Decision: **NR DEC-2018/31/B/ST4/02142**

Available positions: 1.

We are looking for a motivated candidate:

1. **Adjunct (postdoc)** who will be responsible for progress in programming and creation of the software and model related to Hirshfeld Atom Refinement (HAR) method.

We expect a person with:

- a PhD degree in chemistry or physics, informatics, mathematics or related fields,
- experience in programming, preferred C++ and/or Python.
- experience in a research involving computational modeling combined with development of related software/code is preferred
- knowledge of crystallography, solid state physics, computational chemistry and numerical methods is an advantage
- excellent analytical and problem-solving skills
- ability to work independently and within a team

The ideal candidate would also have:

- experience in ab-initio computational chemistry methods including those for large molecules
- experience in quantum crystallography
- experience in crystallographic refinement (especially in HAR)
- familiarity with charge density related calculations

The candidate must meet the requirements of art. 113 of the Act - Law on Higher Education and Science dated July 20, 2018 (Journal of Laws of 2018, item 1668).

We offer:

- A temporary contract with the University of Warsaw (full time position/employment contract) since 1th June 2020 till 30th September 2022.

- Work in friendly environment in a rapidly developing research field.
- The total salary before taxing is 15 000 PLN/month (~10 000 PLN net ≈ 2350€).
- The opportunity to present results during scientific conferences and in well-recognized scientific journals.

The project:

aims at creation and validation of new methods of extraction of more accurate and precise structural information (geometrical, electronic and thermal parameters) from single crystal X-ray diffraction (XRD) experiments than this is possible by using presently available methods of refinement of X-ray data. This will be achieved by advancing quantum crystallography methods (in particular extensions of Hirshfeld Atom Refinement – HAR) well beyond the present state-of-the-art. The current implementation of HAR is, in practice, limited to a certain class of small molecules because for larger molecules computation are by far too long. Our application aims at a significant extension of capabilities of the HAR approach to cover broader range of systems which can be in practice investigated with the method as well as drastically speed up related calculations.

Required documents:

- Motivation letter
- Curriculum Vitae (CV),
- information on the processing of personal data (see the text below),
- List of publication (and/or pieces of software created) highlighting the three most important works
- short description of the 3 most important achievements
- 1 confidential opinion of the promoter (or a researcher) who supervised your research work sent directly to the e-mail address: qc@chem.uw.edu.pl

Please submit the documents **no later than 05/04/2020** to: **qc@chem.uw.edu.pl** (PDF is the preferred format). E-mail entitled: “**QC Adjunct 1**”

Selected candidates will be informed about the date of the interview by e-mail until **10/04/2020**. The results of the competition will be given by e-mail till **14/04/ 2020r**. In justified cases, the interview may also take place via the Internet. Only those who submit complete documentation will be considered in the recruitment procedure.

INFORMATION ON THE PROCESSING OF PERSONAL DATA

INFORMATION CLAUSE

Pursuant to Article 13 of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), University of Warsaw hereby informs:

1. The Controller of your personal data is the University of Warsaw with its registered office at Krakowskie Przedmieście 26/28, 00-927 Warszawa;
2. The Controller has designated the Data Protection Officer who supervises the processing of personal data, and who can be contacted via the following e-mail address: iod@adm.uw.edu.pl;
3. Your personal data will be processed for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw;
4. The provided data will be processed pursuant to Article 22¹ § 1 of the Act of 26 June 1974 Labor Code (uniformed text: Dz.U. of 2018, item 917) and your consent for processing of personal data;
5. Provision of data in the scope stipulated in the Labor Code is mandatory, and the remaining data are processed according to your consent for processing of personal data;
6. The data will not be shared with any external entities;
7. The data will be stored until you withdraw your consent for processing of personal data;
8. You have the right to access your personal data, to rectify, erase them, restrict their processing, object to processing, and to withdraw the consent at any time;
9. You have the right to lodge a complaint to the President of the Office for the Protection of Personal Data.

CONSENT CLAUSE

I hereby consent to have my personal data processed by the University of Warsaw with its registered office at Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw.

I have been informed of my rights and duties. I understand that provision of my personal data is voluntary.

.....
(place and date)

.....
(signature of the person applying for employment)