



UNIwersytet
Warszawski

Wydział Chemii



Warsaw, 7.04.2022

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An announcement for post-doc position

Position of post-doc (visiting researcher) (a group of science positions) in the OPUS 21 project entitled "Molecular gold wires - their growth, polymorphism and physicochemical properties" financed by the National Science Centre, Poland is open for application. Project leader: dr hab. Anna Makal.

The post-doc ('badacz wizytujący w grupie pracowników badawczych') will conduct research in natural sciences, discipline of chemistry. Available positions: 1.

We are looking for motivated candidates:

- with a PhD degree in natural sciences with preference for chemistry – held at the first day of the contract,
- experience in (quantum) crystallography OR/AND crystallography at high-pressure confirmed by published scientific articles
- experience in computational chemistry in particular the ability to perform calculations for periodic systems OR/AND confirmed by published scientific articles
- preferred prior knowledge of GAUSSIAN, CRYSTAL, VASP AND / OR TONTO computing software and experience in using the resources of supercomputing centers
- basic programming skills OR/AND practical experience in script usage/writing
- a very good knowledge of written and spoken English
- written and spoken presentation skills
- ability to work as part of a team

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 2021, item 478), and in 'Katalog kosztów w projektach badawczych finansowanych przez NCN' for NCN OPUS 21 (<https://www.ncn.gov.pl/ogloszenia/konkursy/opus21> bookmark 'Zespół badawczy', 'Post-doc' position).

Main duties:

- running research on improving 3D electron diffraction data analysis by using better scattering factors: TAAM refinements, dynamic 3D ED refinements, periodic DFT calculations, sample preparation and 3D ED data collection. For more details see <https://ncn.gov.pl/sites/default/files/listy-rankingowe/2021-03-15bhga1/streszczenia/523486-pl.pdf>
- designing the most suitable computational protocols for the above
- communication with the supercomputer facilities in order to facilitate the calculations or possible software upgrades
- keeping scientific documentation, supervision of the junior members of the research team

We offer:

a temporary contract with the University of Warsaw (full time position/employment contract) starting from **1.09.2022**, for 12 months, with a possible extension up to **30 months**

depending on the candidate qualifications. Starting date can be slightly delayed for important reasons.

Required documents:

- Curriculum Vitae (CV including list of scientific articles, conference presentations, awards, international internships, scholarships, workshops, participation in research projects),
- a motivation letter (What are your scientific interests? What are your key strengths and achievements? Why do you want to work in the project?),
- a letter of support dedicated to this announcement from one of the former direct supervisors sent directly to the project leader (am.makal@uw.edu.pl),
- information on the processing of personal data (the template available at: <http://www.chem.uw.edu.pl/oferty-pracy/>),
- declaration of reading and acceptance of the rules for conducting competitions at the University of Warsaw (a template available at: <http://www.chem.uw.edu.pl/oferty-pracy/>).

Please submit the documents **no later than 7.05.2022** to: am.makal@uw.edu.pl (PDF is the preferred format). E-mail entitled: "Molecular gold wires post-doc position"

Only candidates who submit complete documentation will be considered in the recruitment procedure. Selected candidates may be invited by e-mail, no later than **16.05.2022**, to participate in the interview. In the case of not signing the contract by the candidate, due to the resignation, we reserve the right to choose the next candidate from the ranking list. The competition may be repeated until a suitable candidate who fulfills all requirements is found.

The results of the competition will be given by e-mail till **10.06.2022**.

The competition is the first stage of the employment procedure as an academic teacher, and its positive outcome is the basis for further proceedings.