



UNIwersytet  
Warszawski

Wydział Chemii



Warsaw, 2.08.2024

WCH.1210-17/2022-2024

### An announcement for POSTDOC position

Position of POSTDOC (a research assistant in a group of science positions) in the SONATA NCN project entitled "*Activation and fixation of CO<sub>2</sub> molecule and carboxylate moiety by a single metal atom center. Experimental, theoretical, and statistical investigation of reaction mechanisms and molecular properties*" financed by National Science Centre Poland, is open for application. Project leader: *dr Kacper Błaziak*

The post-doc (adiunkt w grupie pracowników badawczych) will run a research in exact and natural sciences, in discipline of Chemistry Available positions: 1

#### We are looking for motivated candidates:

- with a PhD degree in chemistry, physics, biology or relevant, held at the first day of the contract
- Having experience in mass spectrometry analytical methods for small molecules,
- Knowledge in the field of mass spectrometry gas-phase chemistry, ion chemistry and reactivity of metal-organic complexes in the gas phase including modeling of kinetic and thermodynamic properties of metal-catalyzed reaction mechanisms.
- Having experience in computational chemical methods for small molecules, including modeling of kinetic and thermodynamic properties of metal-catalyzed reaction mechanisms.
- Knowledge in the field of mass spectrometry gas-phase chemistry, ion chemistry and reactivity of metal-organic complexes in the gas phase
- Good knowledge of the English language (written and spoken).
- Documented experience in scientific presentation (scientific conferences)

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 2024, item 742 z późn. zm. ).

#### Main duties:

- Conducting research within the project topic using mass spectrometry and related: CID, MRM, MS/MS method, together with quantum-chemical computations (eg. DFT, ab initio, CAS-SCF).
- Performing gas-phase reactions in the collision cell of the mass spectrometer resulting in reaction activation determination.
- Applying molecular modeling and high-throughput virtual screening in silico methods to perform thermodynamic and kinetic analysis of selected reaction mechanisms.
- Analyze mass spectrometry, MS2-fragmentation, and ion energy datasets.
- Visualization and presentation of the obtained results during internal meetings as well as scientific conferences.
- Publishing the obtained results in scientific journals.
- keeping scientific documentation according to the internal regulations of National Science Centre and University of Warsaw.

**We offer:**

a temporary contract with the University of Warsaw (full time position/employment contract for 12 months with possibility of extension for another 12 months).

**Required documents:**

- a full CV with list of publications.
- copy of the PhD diploma.
- a letter of motivation explaining your general interest for this position.
- two letters of recommendation. Including: name, affiliation, email, and phone number of the referees who can be contacted, if necessary.
- 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 1.09.2024** to: **kblaziak@chem.uw.edu.pl** (PDF is the preferred format). E-mail entitled: "Application for POSTDOC position - SONATA"

The results of the competition will be given by e-mail till 10.09.2024

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