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Wydział Chemii



An announcement for a technical position

in the H2020 ERC-STG project H2020 ERC-STG „Chirality-sensitive Nuclear Magnetolectric Resonance”. Project leader: dr hab. Piotr Garbacz, prof. ucz. Available positions: **1**.

We are looking for motivated candidates:

- ability to perform quantum mechanical calculations using the density functional method,
- programming skills,
- very good command of the English language.

Main duties:

- conducting activities and scientific documentation related to the project (<https://cordis.europa.eu/project/id/101040164>), in particular building a database of chiral compounds, conducting quantum mechanical computations of nuclear properties using the density functional method, preparing an algorithm based on machine learning to determine nuclear properties based on the structure of the compound.

Required documents:

- curriculum vitae (CV); max. 1 page,
- output file from DFT computations (any program, molecule and its properties)
- script (any programming language) enabling calculation of the pseudoscalar according to the equation (13) from P. Garbacz, A. D. Buckingham, *J. Chem. Phys.* **145**, 204201 (2016) based on the components of the permanent electric dipole moment and the indirect spin-spin coupling tensor.
- 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/>)

We offer:

A temporary 1/8 full-time employment from **03.06.2024** to **30.11.2024** r. at the Faculty of Chemistry.

Please submit the documents **no later than 9 May 2024** to: pgarbacz@uw.edu.pl.

The interview with selected candidates will take place on **10 May 2024**.

The University of Warsaw reserves the right to contact only selected candidates.



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