

**With the consent of the Rector of the University of Gdańsk
a recruitment procedure for the Post-doc (Assistant Professor) position is open
in the Laboratory of Environmental Chemoinformatics
within the Department of Environmental Chemistry and Radiochemistry (Faculty of Chemistry)**

1. Research area:

The person employed on the Post-doc position will carry out the tasks of scientific research as part of the project titled: „**Advanced high aspect ratio and multicomponent materials: towards comprehensive intelligent testing and Safe-by-Design strategies**” (HARMLESS), conducted in the framework of the Horizon 2020 Programme, Grant Agreement no. 953183.

The project's main objective is to transfer new approach methodologies (NAMs) with multi-omics approaches and modern *in silico* and bioinformatics data analysis, into logically structured Integrated Approaches to Testing and Assessment (IATAs) and ultimately into a user-friendly Safe-by-Design decision support tool. The tool includes machine/deep learning algorithms that support: i) automatic and intelligent selection of methods/models, ii) fusion of heterogeneous model outputs to predict the single outcome for risk assessment, and iii) knowledge integration for assessing the risk of new complex Multi-Component, hybrid NanoMaterials, and High Aspect Ratio Nanoparticles (MCNM & HARNs). An essential part of the project's strategy is the *in silico* analysis that includes new predictive computational tools and QSAR/read-across models based on nanomaterial-related (intrinsic) descriptors, system-related descriptors, and quantum-chemical descriptors, reflecting interactions between released elements of multi-component nanomaterials. In combination with information on release patterns and their interaction of the multi-component elements with each other or other chemicals, this will improve our understanding of mixture toxicity of MCNM & HARNs.

2. The scope of work:

The Post-doc will be responsible for:

- supervising PhD Student while performing quantum-chemical calculations of the structural and electronic properties of MCNM & HARNs
- together with PhD Student, under the supervision of PI:
 - will be calculating the descriptors reflecting the interaction of the elements of multi-component nanomaterials with each other and/or other chemicals
 - will be developing of *in silico* models for the prediction of physicochemical properties and toxicological endpoints of MCNM & HARNs, such as perovskites, imogolite nanotubes, silica additives, aerogel fibers.

All team members will be involved in data collection and evaluation, grouping and *in silico* models development.

- Beside above mentioned, the Post-doc will also be responsible for presenting obtained research results, writing scientific publications as well as participating in the project meetings and international conferences.

3. Requirements:

Post-doc should have a PhD in chemistry, physics, materials science or life sciences, and completed at least 1-year foreign professional internship, documented with scientific achievements from this period,

and demonstrate:

- a strong background in quantum chemical calculations (preferably for structurally heterogeneous compounds (for instance, nanoparticles with core-shell structures, and/or multi-functional nanoparticles))
- practical knowledge in the use of chemoinformatics in computer-aided (nano)toxicology
- experience in performing research proved by published high quality research papers
- excellent command of written and spoken English language
- high level skills in scientific writing
- analytical thinking
- skills and motivation for fast learning of new methods, including the
- strong motivation to develop personal research carrier
- self-reliance and creativity
- organizational skills.

4. We offer:

- full-time employment contract initially for 12 months, with the possibility to be extended until the end of January 2025
- annual leave allocation: 36 working days
- salary: in the range of 6'500-7'700 PLN (gross) depending on the candidate's qualification and research experience.

5. Required documents:

Candidates should send the following documents (PDF format or scan) on the e-mail address: agnieszka.gajewicz@ug.edu.pl by February 13th, 2022, with the subject of the message: "Post-doc – HARMLESS":

- Curriculum Vitae including information about completed studies, scientific achievements to date (list of scientific and didactic achievements, participation in conferences as well as research projects, awards, distinctions, etc.)
- a copy of the master's degree diploma as well as copy of the diploma of obtaining a doctoral degree
- an opinion of the dissertation supervisor or opinion from the current place of work
- documents confirming other required skills and qualifications (i.e., foreign language certificate)
- consent to the processing of personal data necessary for the recruitment process *.

* Due to the GDPR, please complete and sign the attached information clause and include your consent to the processing of personal data on the documents.

Deadline for submitting applications : expires on 13.02.2022

The settlement date : expires on 01.03.2022

The employment period : April 2022 – March 2023/January 2025

The University does not provide accommodation, however, subject to availability, support may be provided to allocate a room in the assistants' hotel.

The selected candidates will be invited by the Recruitment Committee for an interview (on-line).

The selected candidates will be notified individually by e-mail about the date, place and form of the interview.

In the event that none of the candidates meet the required criteria, we reserve the right to leave the competition unresolved.

Information clause

In accordance with the general regulation of 27 April 2016 on the protection of personal data, hereinafter referred to as GDPR, we wish to inform you that:

1. *The Administrator of your personal data is the University of Gdańsk, with its seat at (80-309) Gdańsk, ul. Jana Bażyńskiego 8.*
2. *The Administrator has appointed a Data Protection Officer who may be contacted on the following telephone number: (58) 523 24 59 or e-mail address: poin@ug.edu.pl.*
3. *Your personal data shall be processed for the purposes of the recruitment process for the position indicated above in the offer's description.*
4. *The legal basis for processing your personal data for the purposes of recruitment shall be Article 6 Section 1 Point c of the GDPR, with processing being necessary for the fulfilment of a legal obligation to which the Administrator is subject, particularly Article 118a of the Law on Higher Education as well as Article 22¹ of the Labour Code. The condition legalising the processing of personal data provided voluntarily by the candidate, which is beyond the scope of data referred to in Article 22¹ of the Labour Code, shall be Article 6 Section 1 Point a of the GDPR – consent by the data subject.*
5. *Providing your personal data, subsequent to the decision to enter the recruitment process, is obligatory within the scope defined by Article 22¹ of the Labour Code and the Law on Higher Education and determines the possibility of applying for work as well as possible further employment. In the case of personal data which is beyond the scope of the aforementioned legal regulations, providing your data is voluntary but it does determine the possibility of participating in the recruitment process.*
6. *Your personal data shall be processed on behalf of the data administrator by authorised personnel purely for the purposes referred to in Point 3.*
7. *Your personal data shall be stored for a period of time necessary for the fulfilment of the aims referred to in Point 3. Should the recruitment outcome prove negative, your data shall be removed immediately at the completion of recruitment, unless otherwise provided by the record-keeping regulations – then for a period of time specified in these regulations.*
8. *Your personal data shall not be shared with external entities with the exception of cases provided for by legal regulations. Should you submit your application documents in electronic form, the recipient of your data may be an entity acting on behalf of the administrator i.e. a mail service operator.*
9. *Under the terms of the GDPR, you shall be entitled to:*
 - *the right to access your data,*
 - *the right to rectify it if factually incorrect,*
 - *the right to remove or restrict the processing of the data as well as the right to data portability – in cases prescribed by the law,*
 - *the right to object to the processing of the data,*
 - *the right to file a complaint with the supervisory authority – the President of the Personal Data Protection Office, should you consider that the processing of your personal data violates personal data protection regulations,*
 - *the right to withdraw consent at any time, without affecting the lawfulness of processing based on consent before its withdrawal.*

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Date and signature of the candidate