JOB OFFER

Name of position:	Scientific expert
Field:	medicinal chemistry, materials science, nanotechnology
Employment:	Employment contract
Number of Job offers:	1
Salary:	11 500 PLN/month
Work start date:	Between 1st November 2024 and 1st Januray 2025
Period of employment:	9 months
Institution:	Laboratory of Organic Nanomaterials and Biomolecules, Faculty of Chemistry, University of Warsaw, Warsaw
Project manager:	dr hab., prof. ucz. Wiktor Lewandowski
Title of the project:	„Application of innovative synthesis of nanocatalysts in the development of a procedure of construction of ultrasensitive and multitasking lateral flow tests" *The project is implemented as part of the Proof of Concept program of the Foundation for Polish Science.*
Description of the project:	The aim of the project is to develop the technology of lateral flow (LFA) tests to improve their effectiveness (decreasing of detection limit, construction of multitasking tests allowing for simultaneous detection of several antigens). The planned work includes the synthetic part and construction of LFA tests. As a part of the synthetic part, the necessary nanoparticles will be prepared. Then their surface will be modified using chosen antibodies using non-covalent and covalent approaches. As part of the second part of the project, optimization and integration of test components will be performed to ensure repeatability of the results. The aim is to achieve operating tests with a decreased detection limit and multiplexed readout.
Research tasks:	1. Participation in the experimental work aimed at preparing LFA tests with a reduced detection limit / multiplexed tests. 2. Direct supervision of the experimental work of scientific and technical staff participating in the project. 3. Preformation a review of professional literature to select optimal LFA test components and integrate individual elements. 4. Participation in preparation of publications and/or patents as well as presentation of the project results on innovation fairs and scientific conferences.
Expectations for candidates:	1. PhD in chemical/ pharmaceutical sciences (chemistry, biotechnology, medicinal chemistry, pharmacy etc.). 2. Experience in the experimental research in the field of the development of LFA tests documented by patents and/or publications in peer-reviewed international journals. 3. Ability to independently and critically analyze the literature related to the development of LFA tests.

	4. Knowledge of English at a minimum of B2 level.
List of a required documents:	1. CV 2. List of the most important patents, publications and scientific conferences. 3. Cover letter
We offer:	1. Learning various techniques related to working with nanomaterials (synthesis, characterization) 2. Work in a young, dynamically developing, ambitious research team 3. Possibility to participate in scientific conferences
Additional informations:	www.nanoorgmat.chem.uw.edu.pl
Link to the Euraxess website (applies to advertisedents for PhD students and young PhD):	
Submission address (e-mail):	wlewandowski@chem.uw.edu.pl
Deadline for submitting applications:	30.09.2024 Selected candidates will be invited for a short interview in the first decade of October

Please include the following clause:

„I consent to the processing of my personal data for the purposes necessary to carry out the recruitment process in accordance with the Act of August 29, 1997 on the protection of personal data (Journal of Laws of 2016, item 922, as amended)..)"