



CeNT-4-2024

Director of Centre of New Technologies of the University of Warsaw, with the Project Leader, announce opening of the competition for the position of Student in the Laboratory of Small Molecules' Activation – Centre of New Technologies of the University of Warsaw.

JOB OFFER

Position in the project:	PhD Student
Laboratory:	Laboratory of Small Molecules' Activation
Scientific discipline:	Chemical sciences
Keywords:	Highly reactive cations, weakly coordinating anions, coordination chemistry, lanthanides, polycyclic aromatic hydrocarbons
Job type:	Scholarship
Part-time/full-time:	Full-time
Number of job offers:	1
Remuneration/stipend amount/month:	4100-5000 PLN gross gross per month. Possibility of stipend increase after the mid-term evaluation at the Doctoral School, in the amount corresponding to statutory regulations.
Position starts on:	1 Apr 2024
Maximum period of contract/stipend agreement:	48 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Przemysław J. Malinowski, PhD
Project title:	Towards improved lanthanide-based single-molecule magnets based on sandwich complexes with polyaromatic hydrocarbon
Competition type:	OPUS 24 (LAP)
Financing institution:	National Science Centre
Project description:	The main goal of the project is the synthesis of novel complexes of lanthanides with polyaromatic hydrocarbons serving as ligands. Such species may exhibit interesting magnetic properties, including single molecule magnet behavior.
Key responsibilities include:	Synthesis and characterization of novel lanthanide complexes with polyaromatic ligands. This includes, <i>inter alia</i> , their purification, elucidation of crystal structure, interpretation of oscillation spectra, determination of thermal stability and decomposition processes. Tasks within the project may include modifications of molecules used as ligands.
Profile of candidates/requirements:	The competition is open for persons who meet the conditions specified in the regulations on the allocation of resources for the implementation of tasks financed by the National Science Centre for OPUS-LAP grant. MSc or M. Res. degree in chemistry or related discipline. The MSc or M.



	<p>Res. degree should be obtained before the date of starting work in the project.</p> <p>PhD student status on the day of starting work in the project.</p> <p>Ranking list would be made judging:</p> <ul style="list-style-type: none">– academic achievements, i.e. scientific publications, patents, conference talks and posters, etc.– research experience, i.e. participation in scientific projects, internships, stipends, awards, etc.– competence related to the project, i.e. experience in work with highly reactive species and advanced inorganic synthesis, knowledge of analytical techniques (e.g. XRD – single crystal and powder, oscillation spectroscopy) all related also to highly reactive compounds, laboratory experience (experience in the work in a glovebox or using a Schlenk line would be an advantage), good knowledge of English (minimum B2) <p>Selected candidates may be invited for an interview (in person or online) expected between 08-11.03.2024.</p> <p>Competition may be closed with recommendation of no candidate if all the applicants would not fulfill the requirements or represent insufficient academic level.</p>
Required documents:	<ol style="list-style-type: none">1. Cover letter2. Current curriculum vitae with emphasis on scientific experience and list of most important courses taken during the studies with grades obtained; please include average of all grades from studies (for undergraduate and postgraduate levels where applicable)3. Signed information on the personal data processing, available at: https://cent.uw.edu.pl/en/wp-content/uploads/sites/5/2020/07/Information-clause_personal-data-processing.pdf (English version); <p>https://cent.uw.edu.pl/pl/wp-content/uploads/sites/7/2020/07/Klauzula-informacyjna_przetwarzanie-danych-osobowych.pdf (Polish version)</p> <p>Recommendation letters can also be supplied.</p>
We offer:	<ul style="list-style-type: none">• Work on ambitious project aimed at search for novel complexes with interesting magnetic properties• Authorship of papers in top scientific journals• Possibility to attend international scientific conferences• Decent remuneration• Possibility to learn many advanced synthetic and analytical techniques• Friendly work environment
Please submit the following documents to:	p.malinowski@cent.uw.edu.pl
Application deadline:	08.03.2024, 10:00 CET
Date of announcing the results:	At latest on 12.03.2024
Method of notification about the results:	email, website: https://cent.uw.edu.pl/en/career/