



CeNT-23.1-2021

**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:	Student
Laboratory:	Laboratory of Small Molecules' Activation
Scientific discipline:	Chemical sciences
Keywords:	Highly reactive cations, weakly coordinating anions, catalysis, olefin, alkyne, inorganic synthesis, structural chemistry
Job type:	Scholarship
Part-time/full-time:	Part time (approx. 20 hours per week)
Number of job offers:	2
Remuneration/stipend amount/month:	1000 PLN/month gross gross
Position starts on:	1 July 2021
Maximum period of contract/stipend agreement:	1 year contract with possible extension up to 30 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Przemysław J. Malinowski, PhD
Project title:	Highly Lewis acidic metal dication salts with weakly coordinating anions as efficient catalysts for transformations of olefins and alkynes.
Competition type:	Sonata BIS 8
Financing institution:	National Science Centre
Project description:	The main goal of the project is thorough investigation of the role and capabilities of metal cations with extraordinarily high Lewis-acidic character in catalytic transformation of hydrocarbons with double and triple C-C bonds. Tasks within the project include synthesis and characterization of potential catalysts and testing their performance in key organic transformations.
Key responsibilities include:	Synthesis and characterization of novel highly reactive salts of weakly coordinating anions (here: alkoxyaluminates and their fluorinated analogues) containing of closed-shell and transition metal divalent cations. This includes elucidation of crystal structure, interpretation of oscillation spectra, determination of thermal stability and decomposition processes in some cases also examination of magnetic properties.
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



	<p>of tasks financed by the National Science Centre for (SONATA BIS 8) grant.</p> <p>Enrolled as at least 4th year or 2<sup>nd</sup> stage student of chemistry or related discipline.</p> <p>Ranking list would be made judging:</p> <ul style="list-style-type: none"><li>– academic achievements, i.e. scientific publications, patents, conference talks and posters, etc.</li><li>– research experience, i.e. participation in scientific projects, internships, stipends, awards, etc.</li><li>– competence related to the project, i.e. experience in advanced inorganic synthesis and/or materials chemistry, good knowledge of English (minimum B2), analytical techniques (e.g. PXRD, FTIR, Raman, TGA/DSC, MS, NMR etc.), laboratory experience (e.g. work in glovebox or Schlenk line)</li></ul> <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"><li>1. Cover letter</li><li>2. 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</li><li>3. Copy of document confirming the student status</li><li>4. Signed information on the personal data processing, available at: <a href="https://cent.uw.edu.pl/en/wp-content/uploads/sites/5/2020/07/Information-clause_personal-data-processing.pdf">https://cent.uw.edu.pl/en/wp-content/uploads/sites/5/2020/07/Information-clause_personal-data-processing.pdf</a> (English version);</li></ol> <p><a href="https://cent.uw.edu.pl/pl/wp-content/uploads/sites/7/2020/07/Klauzula-informacyjna_przetwarzanie-danych-osobowych.pdf">https://cent.uw.edu.pl/pl/wp-content/uploads/sites/7/2020/07/Klauzula-informacyjna_przetwarzanie-danych-osobowych.pdf</a> (Polish version)</p> <p>Recommendation letters can also be supplied.</p>
We offer:	<ul style="list-style-type: none"><li>• Work on ambitious project aimed at search for novel classes of catalysts for key organic transformations</li><li>• Authorship of papers in top scientific journals</li><li>• Possibility to attend international scientific conferences</li><li>• Decent remuneration</li><li>• Possibility to learn many advanced synthetic and analytical techniques</li><li>• Friendly work environment</li></ul>
Please submit the following documents to:	<a href="mailto:p.malinowski@cent.uw.edu.pl">p.malinowski@cent.uw.edu.pl</a>
Application deadline:	21.06.2021, 12:00 CET
Date of announcing the results:	Not later than 24.06.2021
Method of notification about the results:	email, website: <a href="https://cent.uw.edu.pl/en/career/">https://cent.uw.edu.pl/en/career/</a>