**INSTITUTION: Lodz University of Technology, Faculty of Chemistry, Institute of General and Ecological Chemistry**
**POSITION: PhD student**
**DISCIPLINE: Chemistry**

REQUIREMENTS:

Master's degree in chemistry, chemical technology, material science or similar are required. **Background in catalysis, material chemistry, biomass valorization or photocatalysis will be appreciated.**
Beneficial will be also experience in experimental techniques such as: GC or HPLC chromatography, UV-VIS spectroscopy, nanomaterial synthesis or characterization techniques such as X-ray diffraction, Temperature programmed techniques.
Candidates should have ability to work independently as well as within a research group.
Candidates should have strong command of English in speaking and writing.

WORK DESCRIPTION:

We are looking for two highly motivated, creative and qualified candidates for PhD position, who would like to conduct research as part of an interdisciplinary project funded by the National Science Center in the frame of the OPUS-LAP program, entitled: ***"Controlling reaction pathways in hydrogenation of sugar-derived oxygenates by catalyst design".***
The project will be performed within an international collaboration with the University of Chemistry and Technology Prague (Czech Republic)
The studies will consist in the development of new sustainable synthetic strategies for preparing innovative catalytic materials and in their associated characterization by bulk and surface techniques. The newly-developed catalysts will be tested in promising hydrogenation reactions of chemicals derived from renewable biomass source, like levulinic acid and hydroxymethylfurfural.

Employment period: **36 months, salary 5000 PLN (**brutto)
Start date: September - October 2022

**Required documents:**
• motivation letter
• scientific curriculum vitae, including a list of scientific achievements (scholarships, publications, patents, conference presentations, etc.).
• recommendation letter
• Copy of document confirming Master degree or being a student of last year of master study with fixed date of Master thesis defense, and any additional relevant documents should be submitted by **25/07/2022** to the address **agnieszka.ruppert@p.lodz.pl** with the annotation „konkurs NCN – OPUS-LAP". The necessary condition is that successful candidates need to have the status of PhD student before starting work within the Project.

We offer a fascinating and challenging research in a modern field with exciting projects in an excellent interdisciplinary environment. You will have the opportunity to visit our international collaboration partners (e.g. Czech Republique, France) to enlarge your experience and gain new competencies as well as participate in conferences and congresses.

ADDITIONAL INFORMATION
*The University of Technology has its own student dormitories. Additional information can be provided upon the applicant's request. In a case the chosen candidate will not be able to start the PhD study, the next candidate from waiting list will be chosen. We have the rights not to choose the candidate. Successful candidate will need to join the PhD school, the last year stipend can be paid by the school.*

DEADLINE OF APPLICATION: **25 July 2022, 23:59**