

PhD student position in the project

Institution

AGH University of Science and Technology
Faculty of Geology, Geophysics and Environmental Protection
Department of Mineralogy, Petrography and Geochemistry
al. Mickiewicza 30, 30-059 Kraków
Poland

Position

PhD student

Project title and type

Role of extracellular DNA, generated during communal wastes treatment, in dissemination of virulence and antibiotic resistance genes in aquatic ecosystems
Opus 21 project – financed by National Science Centre Poland (2022-2026)

Requirements

1. Msc graduate in applied mineralogy, chemistry, materials science, environmental engineering or related scientific disciplines.
2. Knowledge of organic and inorganic chemistry.
3. Experience in the use of analytical methods for analysis of liquid samples (e.g. GC-MS, HPLC, AAS, ICP) and solid state analysis (e.g. FTIR, Raman, XRD, SEM, STA-MS).
5. Experience in experimental work and experiment planning.
6. Research experience will be an additional advantage (awards, scholarships, participation in scientific activities, conferences, publications, etc.).
4. Very good spoken and written English.
5. Candidate must successfully pass the exam in the AGH Doctoral School.

A potential candidate should meet the following requirements set out in the regulations of the National Science Centre (more details: [uchwala25_2019-zal1_ang.pdf \(ncn.gov.pl\)](#))

Job Description

1. Extraction of extracellular DNA from treated communal effluents using ultra-high-performance flash chromatography.
2. Characterization of products of DNA reactions with minerals.
3. Removal of extracellular DNA on mineral sorbents.
4. Characterizing solids and solutions, quantifying the results.
5. Preparing manuscripts and presentations for scientific conferences.
6. Participation in seminars, group meetings, and other activities of scientific exchange.

Application Deadline

August 15th, 2022, 23:59

Form of application

by email: l.dziewit@uw.edu.pl and bajda@agh.edu.pl

Terms of Employment

Job type (scholarship agreement): Stipend financed by the National Science Center

Number of job offers: 1

Stipend amount/month: monthly stipend 4 000,00 PLN (gross stipend, tax-free stipend)

Workplace: AGH University of Science and Technology in Kraków; Faculty of Geology, Geophysics and Environmental Protection; Department of Mineralogy, Petrography and Geochemistry; al. Mickiewicza 30; 30-059 Kraków, Poland

Position starts on: October 1st, 2022 (01.10.2022)

Period of employment with the scholarship: 47 months (the period can be extended)

In the event of a negative result of the recruitment to the AGH Doctoral School, the contract will not be signed.

Additional Information

The application should contain the following:

1. Motivation letter outlining your interest in the proposed research - up to 2 pages.
2. Curriculum vitae (including, e.g., education, research activities, list of publications, awards etc.).
3. Documents confirming scientific degrees (copy of diploma).
4. Optional: a research resume with a list of research projects in which the candidate took part (with specification of the role); PDF files of publications; list of talks at conferences and workshops, list of prizes and awards; scientific experience, courses, trainings (e.g. supporting letters).
5. Scan of signed permission for recruitment-related personal data processing, which states: „I give permission to the AGH University of Science and Technology, al. Mickiewicza 30, 30-059 Kraków, Poland to process my personal data for the purposes of carrying out the recruitment procedure”.
6. All required documents should be prepared in English.
7. The recipient of the scholarship will be selected by the Recruitment committee chaired by the Principal Investigator of the project (prof. Łukasz Dziewit – University of Warsaw – l.dziewit@uw.edu.pl).
8. Reviewing of the candidates will begin on 16th August 2022.
9. The candidates may be invited for an interview that will be organized online or live on 12th and 13th September 2022.
10. The final results will be announced on 14th September 2022.