

## Undergraduate student position in the project

### Institution

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

### Position

Undergraduate 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. student of 1<sup>st</sup> (Bachelor) or 2<sup>nd</sup> (Master) degree study in the field of environmental engineering or applied geology.
2. Knowledge of organic and inorganic chemistry.
3. Knowledge of analytical methods for the analysis of liquid samples (e.g. HPLC, AAS) and physicochemical and mineralogical characterization (e.g. SEM, BET, IR).
4. Experience in experimental work and experiment planning.
5. Very good spoken and written English.
6. Predispositions for scientific and organizational work.

A potential candidate should meet the following requirements set out in the regulations of the National Science Centre (more details: [uchwala124\\_2022-zal1\\_ang.pdf \(ncn.gov.pl\)](#))

### Job Description

1. Assistance in laboratory works, including chromatographic and spectroscopy analyses
2. Extraction of extracellular DNA from treated communal effluents using ultra-high-performance flash chromatography.
3. Characterizing solids and solutions and quantifying the results.
4. Preparing data sheets for analysis of the results.
5. Participation in seminars, group meetings, and other scientific exchange activities.

### Application Deadline

March 24<sup>th</sup>, 2025, 23:59

### Form of application

by email: [l.dziewit@uw.edu.pl](mailto:l.dziewit@uw.edu.pl) and [bajda@agh.edu.pl](mailto: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 1 250,00 PLN (gross stipend, tax-free stipend)

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

Position starts on: April 1<sup>st</sup>, 2025 (01.04.2025)

Period of employment with the scholarship: 8 months

### **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 (e.g., education, awards, etc.).
3. Documents confirming the status of the student.
4. Scan of signed permission for recruitment-related personal data processing, which states: „I give permission to the AGH University of Krakow, al. Mickiewicza 30, 30-059 Kraków, Poland, to process my personal data for the purposes of carrying out the recruitment procedure”.
5. All required documents should be prepared in English.
6. The scholarship recipient will be selected by the Recruitment committee chaired by the Principal Investigator of the project (prof. Łukasz Dziewit – University of Warsaw – l.dzewit@uw.edu.pl).
7. Reviewing of the candidates will begin on 25<sup>th</sup> March 2025.
8. The candidates may be invited for an interview that will be organized online or live on the 26<sup>th</sup> of March, 2025.
9. The final results will be announced on 26<sup>th</sup> March 2025.