

Name of the unit: University of Agriculture in Krakow; Faculty of Forestry, Department of Ecology and Silviculture

Project leader: prof. dr hab. inż. Marcin Pietrzykowski
[Marcin Pietrzykowski - Google Scholar](#)

Job title: PhD student-scholarship holder
Number of scholarships: 1

The recruitment process will be carried out in accordance with the “Regulations on Awarding NCN Scientific Scholarships in Research Projects Funded by the National Science Centre”, set out in the resolution by the NCN Council No. 25/2019 of March 14, 2019.

The scholarship holder will be selected on the basis of a ranking list prepared in accordance with the above-mentioned regulations; the Scholarship Committee reserves the right to invite selected persons for an interview. In the event that the person topmost on the ranking list decides not to sign the scholarship agreement, the Scholarship Committee may decide to employ the second person on the list, or the next one, if the second person also chooses not to sign the scholarship agreement. The Committee may also decide to close the competition without selecting a candidate, and to publish a new competition for the post.

Description of tasks:

The PhD student-scholarship holder will carry out research tasks under the OPUS 20 grant financed by the National Science Centre entitled: “*The impact of degraded land reclamation methods and plant cover renewal scenarios on functional diversity, carbon sequestration and water retention in new ecosystems*”, registration number 2020/39/B/ST10/00862; G-1428/WL/21-24. The project lasts 36 months and is implemented in collaboration with the University of Silesia in Katowice. The summary of the project is available on the National Science Centre website, at: [498227-pl.pdf \(ncn.gov.pl\)](#).

The selected candidate will be a participant of the Doctoral School at the University of Agriculture in Krakow, and will follow the courses and tasks provided for in the curriculum.

The tasks of the scholarship recipient selected in the competition will include:

- 1) Field research typical of habitat studies, ecology and hydrology, sampling in the area of the mining heap;
- 2) Laboratory work related to the determination of the water supply and other hydrological and physical properties of the soil substrate;
- 3) Systematic literature review and meta-analysis of source data;
- 4) Statistical data analysis;
- 5) Writing scientific papers in English and presenting research results at scientific conferences, and developing, as part of the team, publications for JCR-listed international journals;
- 6) Implementation of an individual study program at the Doctoral School of the University of Agriculture in Krakow: <https://phdschool.urk.edu.pl/index/site/6822>;

- 7) Participation in the preparation of other applications, and applying for funding for research under the competitions announced by the NCN, NCBR and other institutions indicated by the grant manager and direct research supervisor;
- 8) Timely preparation and submission of a doctoral dissertation in the form of a series of thematic scientific publications.

The candidate should be interested in ecology, hydrology, and restoration of forest ecosystems with elements of environmental engineering. Experience related to the publication of scientific papers and statistical data analysis, spatial analysis, and geomatics is recommended. Knowledge in the field of hydrogeology will be an advantage. Other desirable features include motivation towards scientific work, teamwork skills, independence and initiative in carrying out the assigned tasks in the implementation of field and laboratory research, as well as punctuality, timeliness, and flexibility.

Eligibility Requirements:

- 1) A Master's degree in the field of natural sciences, or environmental protection, or forestry, or related sciences;
- 2) Knowledge of the basic methods and techniques of conducting a natural experiment;
- 3) Very good command of the English language (writing scientific papers, speaking at conferences, and communicating freely with foreign partners);
- 4) Knowledge of the basic methods of statistical analysis of results and their presentation in graphic form;
- 5) B-category driving license, enabling the implementation of field research sessions and business trips.

Additional advantages will include:

- 1) Scientific and research achievements, in particular works published in scientific journals related to environmental science, and conference presentations;
- 2) Basic programming skills in the R software environment;
- 3) Basic knowledge of working in the GIS environment (preferred ArcGIS environment);
- 4) Experience in laboratory work and fieldwork, related to environmental protection.

Deadline for submitting the offers: September 10, 2021, by 23.59

Competition results will be published on: September 15, 2021. The work shall commence on: October 1, 2021.

Required documents:

- 1) Motivation letter;
- 2) The candidate's CV, taking into account his/her scientific achievements (if any), including:

- a. A list of publications with an indication of the role the candidate played in the creation of the work (in the case of works submitted for publication, please attach information about the date of submission of the given article and the current status of the manuscript);
 - b. Participation in training courses and scholarly workshops;
 - c. Participation in research and implementation projects;
 - d. Participation in scientific conferences.
- 3) A certified copy of the Master's diploma;
 - 4) Master's thesis in the format of a *.pdf file;
 - 5) Opinion letter from the research supervisor or other researcher who can confirm the candidate's competences;
 - 6) Information clause (second PDF) <https://bip.malopolska.pl/urkrakow,m,306914,2018.html>

Additionally, other documents confirming the candidate's competences may be attached. Please send your application, by e-mail only, to the following address: wles@urk.edu.pl, with a copy (CC) to the address of the coordinator of the task under the grant: dr hab. inż. Anna Klamerus-Iwan, prof. UR (PhD Eng.) at anna.klamerus-iwan@urk.edu.pl, quoting in the title of the message: "PhD student OPUS 20". You can also send any questions regarding the project and this competition to the same address.

Conditions of employment:

The selected candidate will participate in the Doctoral School at the University of Agriculture in Krakow. Scholarship as part of the grant (36 months) amounts to PLN 4266.57 gross per month, for the duration of the project (36 months). Then, in the fourth year of studies, the candidate will receive the Doctoral School scholarship amounting to PLN 3654.00 gross.

Additional information:

In accordance with the guidelines of the National Science Centre, the scholarship committee will take into account three criteria, that is: 1) the candidate's scientific achievements, including publications in reputable publishing houses/scientific journals (50% of the final grade); 2) achievements resulting from conducting scientific research, scholarships, awards and scientific experience gained domestically or internationally, workshops and scientific training, participation in research projects (20% of the final grade); 3) competences to carry out specific tasks in the research project (30% of the final grade).

The research supervisor and then the supervisor of the doctoral dissertation will be dr hab. inż. Anna Klamerus-Iwan prof. UR (email address: anna.klamerus-iwan@urk.edu.pl; ORCID number 0000-0003-1303-6726)