



**Międzynarodowa Środowiskowa Szkoła Doktorska
przy Centrum Studiów Polarnych
w Uniwersytecie Śląskim w Katowicach**

ul. Bedzińska 60
41-200 Sosnowiec
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Title of PhD project: Life at both edges of the globe – bipolarity concept tested on pelagic ostracods

The leading unit: Institute of Oceanology Polish Academy of Sciences, Sopot, Poland

Requirements:

1. Master's degree in biology, ecology, biological oceanography or related and positive result of recruitment for doctoral studies. A candidate may submit application if receives the MSc Degree till September, 30th 2021;
2. Basic experience in taxonomic laboratory work (e.g., ability to identify plankton);
3. Ability to carry out multidimensional statistical analyzes;
4. English language skills that allows for writing the scientific publications;
5. At least basic experience in writing scientific articles;
6. High motivation and enthusiasm for academic work;
7. Creativity and ability to think critically;
8. Good communication and networking skills in order to provide excellence in research in the area (Polish is not required for foreigners).

Tasks description:

1. Laboratory analysis of planktonic Ostracoda derived from historic and new samples from both polar regions (identification to the species level, developmental stage together with morphometric analysis);
2. Creation of database with abundances, measurements and photographs of individual Ostracoda species;
3. Participation in Arctic/Antarctic cruises including preparation, organization and collection of zooplankton;
4. Participation in genetic part of the project;
5. Statistical analysis of obtained results and a synthetic summary of subsequent stages of laboratory work;
6. Visualization (3D) and modeling of the pelagic distribution of Ostracoda;
7. Preparation of scientific articles in English and conference presentations including active participation in conferences/workshops/project meetings.
8. Collaboration in other research tasks carried out in the Pelagic Ecosystems Functioning Laboratory of the Department of Marine Ecology of the IO PAN.



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Abstract:

This PhD deals with a poorly recognized group of zooplankton - Ostracoda, and its aim is to verify (morphologically and genetically) composition structure, distribution (in the past and today) and the role of these animals in two very different polar ecosystems. The ambition of this project is to verify the concept of bipolarity ("symmetrical" presence of identical or closely related species of zooplankton at the both edges of Earth) based on a wide collection of historical and contemporary taken ostracods samples from the Atlantic sector of Arctic and Antarctic waters. The benefit of the project is an access to valuable zooplankton materials from the *Discovery* expeditions from the 1920s and 1930s gathered at the Natural History Museum (London) which opens up a wide range of opportunities for PhD internship in one of the most prestigious research centers in the world. This access to archival materials is exceptional opportunity for biological materials because it will allow to trace changes in composition structure and biogeography of this group over the last 100 years. Furthermore, extensive international cooperation - previously agreed with foreign partners from the leading European oceanographic institutions (the Alfred Wegener Institute, Shirshov Institute of Oceanology of the Russian Academy of Sciences and the Norwegian Polar Institute) - provides a unique opportunity to follow long-term trends in ecology of polar zooplankton, particularly exposed to changes caused by global warming.

Other information:

The work will be carried out under supervision of Katarzyna Błachowiak-Samołyk, kasiab@iopan.pl and Emilia Trudnowska, emilia@iopan.pl, both from the Institute of Oceanology Polish Academy of Sciences, Sopot, Poland.

The amount of scholarship: 5 000 PLN gross per month in the first half and 6 000 PLN gross per month in the second half of the project implementation period.

Deadline for application, conditions and procedure of admissions as well as the date of the competition result:

According to the regulations of IEDS

- 01.07-18.08.2021 - online recruitment in the IRK system (<https://irk.us.edu.pl/>), including the creation of an account in the online recruitment system IRK; payment of the enrollment fee (the date of the transfer is decisive); entering relevant information and documents.
- 23.08.2021 - deadline for delivery of documents (title and outline of the project, list of achievements with their confirmation and others).
- 23.08.2021 - information on the mode and time of the test of knowledge in the discipline in which the doctoral dissertation is planned.



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- 02.09.2021 - test of knowledge in the discipline in which the doctoral dissertation is planned (the time will be determined by the recruitment committee depending on the number of candidates for each topic).
- 6.09.2021 - individual information about the test result and admission to the next stages of recruitment to the IEDS as well as the date of the interview.
- 13.09.2021 - deadline for sending presentations for job interviews.
- 14.09–16.09.2021 - interviews with candidates (date and place of interviews depends on the number of applications for specific topics).
- 17.09.2021 - announcement of lists of shortlisted candidates and reserve lists.
- 20.09–23.09.2021 - registration of candidates qualified for admission.
- 24.09.2021 - announcement of lists of candidates accepted from reserve lists.
- 27.09-29.09.2021 - entries of candidates shortlisted for admission from reserve lists.
- 30.09.2021 - the date of announcing the list of people admitted to the IEDS.

Information on the conditions for awarding a doctoral scholarship:

The project is financed under the NCN PRELUDIUM BIS-2 competition.

Conditions according to point 2.1.3 of Annex 2 to the Regulations on onwarding funding for research tasks funded by the National Science Centre as regards research projects, set forth in NCN Council Resolution No 95/2020 of 14th September 2020.

Scholarship is awarded pursuant to the Act of on High Education and Science of 20th July 2018.

The call is open for all those who are not PhD holders and are not student at the doctoral school.