



## **A PhD student position in computational biology**

**available from October, 2020**

in the project **Identification and comprehensive classification of peptidases**

funded by the National Science Centre lead by Kamil Steczkiewicz

The main idea of the project is to develop the overall evolutionary and structural picture of the peptidase universe. To date, the main classification of peptidases has been compiled into a widely acknowledged MEROPS database, which is an indispensable tool for anyone working with these enzymes. Yet there were no extensive searches for distantly related, new families of peptidases aiming to broaden their ensemble. Also, there is no systematic structural take on peptidases what might impede efficient peptidase annotation on a bigger scale, e.g. for the whole taxons. In this project, we will collect all know peptidases and classify them to build a systematic framework for subsequent identification of new, previously unknown peptidase families. We will attempt to provide sequence/structure descriptors for every identified family in order to facilitate further research relying on identification of peptidases belonging to certain families or already pre-defined functional groups. The project's outcome might shed new light on peptidases in terms of their evolution, functional specializations and distribution across nature.

### **Requirements**

successful applicant should

- 1** hold MSc degree (or equivalent) in Biology, Bioinformatics, Biotechnology, Biophysics
- 2** join the Doctoral School at our Institute
- 3** have fluency in spoken and written English
- 4** have basic computer skills
- 5** be enthusiastic about nature, evolution, protein structure comprehension
- 6** eager to solve problems in non-conventional ways

### **Our offer**

- 1** participation in courses and conferences
- 2** three years stipend (about 3500 PLN net per month)
- 3** starting from autumn 2020

### **The application must include**

- 1** curriculum vitae
- 2** motivation letter
- 3** at least one recommendation letter and contact details of the referee/s
- 4** a list of publications and/or communications (if applicable)

Applications are welcome at [\*\*kamil.steczkiwicz@gmail.com\*\*](mailto:kamil.steczkiwicz@gmail.com)

Deadline 31. 08. 2020. Selected applicants will be invited for an interview and asked to present their work.

All applications must contain the following statement to allow us process your data: "I hereby give consent for my personal data included in the job offer to be processed for the purposed recruitment under the Data Protection Act 1997 (Dz. U. 2002 no. 101, item 926 with subs. changes)."