

**Recruitment for the Poznań Doctoral School of the Institutes of the Polish Academy of Sciences
at the Institute of Bioorganic Chemistry, PAS in Poznań
Procedure no 18/2020/ICHB/PSD**

INSTITUTION: Institute of Bioorganic Chemistry, PAS
CITY: Poznań
POSITION: PhD student
POSITIONS AVAILABLE: 1
SCIENTIFIC DISCIPLINE: Biological sciences
PUBLICATION DATE: 12.08.2020
APPLICATION DEADLINE: 10.09.2020
IBCH PAS WEBSITE: <http://www.ibch.poznan.pl>
PDS IPAS WEBSITE: <http://www.psd-ipan.ibch.poznan.pl/>

KEY WORDS: protein expression, purification and crystallization, X-ray diffraction

Principal Investigator: Prof. Mariusz Jaskolski

I. Project description

The goal of the project is generation of Peptide-Organic Framework structures and co-crystallization experiments with native and recombinant proteins. A successful realization of the project can, in the long run, bring many benefits to several areas that exploit the structural information about biological macromolecules. Macromolecular crystallography is still the best method to determine protein 3D structure with atomic resolution. However, it is critically dependent on the ability to grow good-quality single crystals. Some types of proteins are notoriously recalcitrant to crystallization and new crystallization methods are needed. Our supramolecular peptide-organic frameworks, being themselves a scientific novelty, have the potential to facilitate protein crystallization and/or improve the crystal quality. Since this concept is entirely new, it opens a completely new avenue towards structure discovery in molecular biology.

Additional information:

1. Research and doctoral theses shall be carried out within the SYMFONIA nr 2016/20/W/ST5/00478, entitled "Supramolecular Peptide- Organic Frameworks (POFs)", funded by the National Science Center.
2. PhD students shall receive a stipend in the gross amount of 2500 PLN (2200 PLN net), for the period of 26 months with possible extension
3. PhD students shall be subject to social insurance, pursuant to article. 6 section 1 passage 7b of the act of October 13th, 1998 on the social insurance system (Journal of Laws of 2019, item 300, 303 and 730).

II. Requirements for the candidates:

1. MSc degree in chemistry, biology, physics or a related field, or fulfilling the conditions stipulated in article 186, section 2 of the act of July 20th, 2018 Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended).
2. Basic experience in laboratory work, encompassing molecular biology and/or biochemistry. Previous experience in biocrystallography will be an advantage.
3. Enthusiasm for experimental work.
4. Good command of spoken and written English.

III. Duties in project:

1. purification of proteins
2. co-crystallization of proteins with POFs
3. structural investigations
4. data interpretation
5. preparation of data for publication

IV. Required documents:

1. Application for admission to PDS IPAS along with the consent for processing personal data upon the recruitment procedure and a statement on having acknowledged the regulations of recruitment for PDS IPAS, using form downloaded from [https://www.ibch.poznan.pl/uploads/studium%20doktoranckie/2019/ICHB%20-%20Application%20for%20admission%20\(2019-09\).docx](https://www.ibch.poznan.pl/uploads/studium%20doktoranckie/2019/ICHB%20-%20Application%20for%20admission%20(2019-09).docx)
2. Certified copy of the diploma confirming graduation or a certificate confirming graduation (in the case of diplomas issued by foreign higher education schools, diploma stipulated in article 326, section 2, passage 2 or article 327, passage 2 of the act of July 20th, 2018 – Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended), entitling to apply for conferment of a doctoral degree in the state in where such a certificate was issued by the relevant higher education school. In the event when the candidate is not in possession of the aforementioned documents, he/she is obliged to submit them prior to admission to PDS IPAS. Additional information on foreign school diplomas are available at: <https://nawa.gov.pl/en/recognition/recognition-for-academic-purposes/applying-for-admission-to-doctoral-studies>
3. Scientific CV encompassing track record of previous education and employment, information on involvement in scientific activities (participation in student research groups, attendance at scientific conferences, accomplished internships and training, awarded prizes and distinction) and list of publications.
4. Cover letter featuring a short description of research interests, achievements and justification for the intention to commence education at the doctoral school.
5. Certificates or other documents confirming the degree of proficiency in English, if the candidate is in possession of such materials.
6. Contact details of at least one, previous scientific supervisor or another researcher who is entitled to issue an opinion on the candidate.

V. Applications should be submitted via the eRecruiter portal at

<https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=079dd90330e04054b0693e49330c8d92>

VI. Submission deadline is **10.09.2020**.

VII. Criteria for evaluation of candidates:

1. Candidate's research achievements, pursuant to the grades obtained in the course of studies, scientific publications, awarded scholarships and distinctions resulting from conducting scientific research or student activities or other achievements.
2. Candidate's scientific and professional experience, pursuant to participation in conferences, workshops, training sessions and internships, implementation of research and commercial projects, involvement in scientific trusts and societies, international and professional mobility, experience in other sectors, including industry.
3. Candidate's knowledge on the following discipline: biological. sciences.
4. Knowledge of the subject matter described in the recruitment advertisement.

VIII. The recruitment procedure shall be concluded no later than **07.10.2020**.

IX. The description of the recruitment process is stipulated in the Regulations of Recruitment for PDS IPAS. Following the recruitment procedure, the unadmitted candidates shall be informed on the number of points obtained at both stages.

For additional information please contact
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Information clause:

According to the content of art. 13 of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46 / EC (General Data Protection Regulation), hereinafter referred to as GDPR, we inform that:

1. The administrator of the collected personal data is the Institute of Bioorganic Chemistry of the Polish Academy of Sciences, Noskowskiego 12/14, 61-704 Poznań, Poland, VAT No. PL 777-00-02-062 (hereinafter referred to as the Institute).
 2. The administrator has appointed a Data Protection Inspector who can be contacted in writing, by traditional mail, writing to the Institute's address: Data Protection Inspector, Institute of Bioorganic Chemistry of the Polish Academy of Sciences, Noskowskiego 12/14, 61-704 Poznań, Poland or by sending an e-mail to: dpo@ibch.poznan.pl.
 3. Personal data are processed in order to implement the administrator's tasks related to the recruitment to the Poznań Doctoral School of the Institutes of the Polish Academy of Sciences.
 4. The legal basis for data processing is the Act of 26 June 1974 - Labor Code, the Act of 30 April 2010 on the Polish Academy of Sciences, the Act of 20 July 2018 Law on Higher Education and Science and consent of the data subject.
 5. Personal data collected in the current recruitment process will be stored for 3 months from the moment the recruitment process is resolved. After this period, personal data will be effectively destroyed.
 6. Personal data will not be conveyed to a third country.
 7. Personal data of the candidate selected in the competition may be made available to third parties authorized under the law.
 8. The person whose data is processed has the right to:
 - access to the content of your personal data, demand their correction or deletion, on the terms set out in art. 15-17 GDPR;
 - set restrictions on data processing, in cases specified in art. 18 GDPR;
 - data transfer, on the principles set out in art. 20 GDPR;
 - withdrawal of consent at any time without affecting the lawfulness of the processing that was carried out on the basis of consent before its withdrawal;
 - lodging a complaint to the President of the Office for Personal Data Protection.
- Providing personal data in the scope resulting from art. 22 (1) of the Act of 26 June 1974 - Labor Code, is mandatory, providing data in a broader scope is voluntary and requires consent to their processing. Refusal to provide personal data prevents the application from being considered.