INSTITUTE OF BIOORGANIC CHEMISTRY
Polish Academy of Sciences

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IBCH PAS RECRUITMENT PROCEDURE NO. 18/2021/T

FOR THE POSITION OF SENIOR SPECIALIST

INSTITUTION:	Institute of Bioorganic Chemistry, PAS
CITY:	Poznan
TYPE OF POSITION:	Senior Specialist
POSITIONS AVAILABLE:	1
SCIENTIFIC DISCIPLINE:	bioinformatics, AI, Big Data, Data mining
DATE OF PUBLICATION:	6.12.2021
DEADLINE FOR APPLICATIONS:	9.01.2022
WEBSITE:	https://www.ibch.poznan.pl/
	https://portal.ibch.poznan.pl/department-of-molecular-and-systems-biology/

KEY WORDS: **artificial intelligence, medical datasets, bioinformatics**

Research project: participation in the implementation of the project: "ECBiG - European Center for Bioinformatics and Genomics – MOSAIC", project no: POIR.04.02.00-00-D017/20 (project co-funded by the European Regional Development Fund under the Intelligent Development Operational Program 2014-2020).

The MOSAIC project will create an advanced research platform to obtain biomedical and clinical data, standardize, integrate and analyze them using artificial intelligence (AI) algorithms to generate new knowledge and tools for personalized prevention, diagnosis and medical therapies. The MOSAIC platform will be created on the basis of two models of civilization diseases, selected due to epidemiological, demographic, social and economic conditions: cardiological diseases and cancer. For more information about the project please visit our website at: www.mosaic.ichb.pl

Project leader: Prof. dr hab. Marek Figlerowicz

I. **Job duties:**
- Data preparation, organization, and analysis.
- Development of new and tuning of existing models and analytical approaches.
- Presentation of data and results in a clear and concise manner.
- Active participation in the group meetings and meetings with the collaborating teams.
- Liaise with experts in biology, medicine and experimentation to ensure optimal collection of data to train biomedical machine learning models
- Ability to work with the team and independently.

II. **Requirements for the candidates:**
- Doctorate degree in computer science, computational biology, bioinformatics (or other relevant); OR Master's degree and at least 2-years work experience delivering state-of-the-art AI/ML solutions.
- Documented experience with machine learning concepts, tools, and applications.
- Demonstrated advanced programming expertise in Python.
- Expert-level knowledge in at least one major deep learning framework (e.g. PyTorch, TensorFlow).
- Experience working with biomedical data (e.g. genomics, transcriptomics, proteomics, clinical images).
- Experience with extraction, handling, and processing of large data sets. Knowledge of software engineering and machine learning best practices, including version control, continuous integration (CI) and continuous development (CD), containerization, High Performance Computing (HPC), and shell scripting.
- Fluency in English.
- Background or interest in biology or medicine, in particular cancer or cardiovascular diseases pathomechanisms, is a plus but not required.

HR EXCELLENCE IN RESEARCH

CATEGORY
A+

KNO
Krajowy Naukowy
Ośrodek Wiodący
2014-2018
Leading National Research Centre

III. **Application requirements:**

- Letter of application to the Director of IBCH PAS
- CV including information about experience/achievements in research, list of publications (with Hirsh Index and number of citations according to Web of Science index), list of inventions/patents implementations, information about participation in research projects, information about research trainings and conferences, information about awards and distinctions, information about experience in a supervision of students.
- Copy of diploma
- Two letter of reference and/or contact details for scientific personnel who can provide the reference

IV. Applications must be submitted via the eRecruiter portal, using the link below:
https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=541e55081864433d8b5c300678d0a28e

V. The submission deadline is 9.01.2022
Following preliminary verification, on the basis of the application documents, selected candidates will be invited to an interview, as a result of which a candidate recommended for employment shall be appointed. The main criterion, taken into consideration during the selection of the candidates, will be experience with machine learning concepts, tools, and applications.

VI. The recruitment procedure shall be concluded until 30.01.2022. Position is currently open.

VII. Employment shall take place in accordance with provisions of the Labor Code of Poland.

VIII. Position is currently open. The Employment period is 24 months (including a 3-month trial period) with a possibility of further extension.

IX. **The proposed salary is in line with market rates in this area and depends on the candidate's current experience and career stage. We offer the possibility of building your own research team in the near future.**

For further details, please contact: Lucyna Budzko, PhD

e-mail: budzko@ibch.poznan.pl

Information clause:

Pursuant to the stipulations of the regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons 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), further referred to as GDPR, we hereby inform that:

- *The Institute of Bioorganic Chemistry, Polish Academy of Sciences, seated in Noskowskiego St. 12/14, 61-704 Poznan; REGON 000849327, NIP 777-00-02-062 is the administrator of the collected personal data (further referred to as the Institute).*
- *The Administrator appointed a Data Protection Officer, who can be contacted in writing, via traditional mail, by sending a letter to the following address: Z. Noskowskiego St. 12/14, 61-704 Poznan, or by sending an e-mail to: dpo@ibch.poznan.pl.*
- *The personal data of the candidates is processed for the purposes of fulfilling the tasks of the administrator, associated with conducting the recruitment procedure for a vacant position.*
- *The legal basis for processing personal data is the Act of 26 June 1974 – The Labor Code, Act of 30 April 2010 on the Polish Academy of Sciences or the consent of the person whose data shall be subjected to processing.*
- *Your personal data shall be subjected to processing for period of 3 months upon the date of decision of the recruitment committee. Following this period, the data will be irretrievably and effectively destroyed.*
- *The personal data of the candidates shall not be transferred to any third country.*
- *The person whose data shall be subjected to processing has the right to:*
  - *request access to his/her personal data, and to amend it or delete it, pursuant to articles 15-17 of GDPR;*
  - *limit data processing, in the events stipulated in article 18 of GDPR;*
  - *data transferring, pursuant to article 20 of GDPR;*
  - *withdraw consent at any moment, without influencing compliance with the law of the processing that was executed prior to consent withdrawal;*
  - *file a complaint to the Inspector General for Personal Data Protection.*

Providing personal data in the scope stipulated in article 22 (1) of the Act of 26 June 1974 – The Labor Code is mandatory, whereas providing data in a broader scope is voluntary and requires consent for its processing.