JOB OFFER

Position in the project:	Group leader
Scientific discipline:	Computer science
Job type (employment contract/stipend):	employment contract
Number of job offers:	1
Remuneration:	16 700 PLN monthly (gross income)
Position starts on:	1 October 2019, but not later 1 st February 2020
Maximum period of contract/stipend agreement:	3 years
Institution:	Jagiellonian University, Cracow
Project leader:	Jacek Tabor
Project title:	Bio-inspired artificial neural networks
Project description:	Project is carried out within the TEAM-NET programme of the Foundation for Polish Science Artificial neural network model was created basing on analogies to biological counterparts, such as a simplified model of the neuron or a system of retinal neurons. Due to the increasing complexity of tasks and problems with the development of effective methods for learning deep neural networks, solutions based on algebraic structures dominate Today, advanced approaches in machine learning such as deep learning show a number of undesirable features, such as forgetfulness, susceptibility to adversarial examples, the requirement for a large training set, and slow learning. Most of these features do not occur in biological systems, thus it would be beneficial to take an inspiration from them to help training artificial systems. The aim of the project is to analyze high-level behaviors of biological neural systems and to build innovative artificial models by proposing new paradigms of learning and new architectures of computational models. The Jagiellonian University will run six research groups: Cognitive group (leader Tadeusz Marek), Physics-group (leader Maciej A. Nowak), Machine-learning group, Neuro-group, BioDataScience-group, InfoTechgroup. We seek for a leader of the BioDataSciencegroup The broad aim of the group would be to maintain and analyze huge biological datasets (in particular fMRI, DTA, dense array EEG) and to provide additional information on the function and structural networks in the brain. The group will also participate in the research of the disease-triggered neural correlates and will test theoretical hypothesis of the Machine Learning, Physiscs and InfoTech groups. The applicant is welcome to add other goals, provided they fit into the broad topic of the group, and general aims of the project.









Please submit the documents to:	
	bionn@matinf.uj.edu.pl
	5. Access to computing infrastructure.
	7600 PLN). 4. Scientific and organizational support;
	c. one PhD students position (with a monthly scholarship of
We offer:	b. two half-time junior post-doctoral researchers (monthly gross salary of 4000 PLN each),
	salary of 8000 PLN each),
	3. Funds guaranteed to set up a team including:a. two full-time junior post-doctoral researchers (monthly gross
	2. Chance and challenge to create your own team;
	February 2020, subject to periodical evaluations;
	1. Full time employment for 36 months, starting not later than 1st
	8. information about processing of personal data.
Required documents:	7. statement of knowledge and acceptance of intellectual property rules and legal protection.
	6. documents confirming the scientific degrees (copies of Master, PhD, habilitation diplomas and professorial nominations);
	establish industrial connection, all discussed in relation with the research aims of the project) – up to four pages;
	term research plans, innovation potential and possible prospects to
	prizes and awards; 5. a letter of motivation (including description of immediate and long-
	c. a list of talks at conferences and workshops, and a list of academic
	descriptions of implementations.
	b. full text of patents (achievements cannot be patent applications) or
	implementation achievements of the last 10 years, which are a. full publication texts (in original language) or
	4. PDF files of up to five most important papers of the candidates and or
	(especially those in which the candidate was the principal investigator);
	2. curriculum vitae;3. research record with a list of publications, and list of research projects
Key responsibilities include: Profile of candidates/requirements:	filled-in recruitment form (basic formal information), curriculum vitae:
	University in the last two years.
	motivated candidate with at least PhD in computer science and/or mathematics (statistics), with a proven track record, solid knowledge and working experience in data science and machine learning. He/She should have ability to run independently research projects. An experience in cooperation with industrial partners or in patenting would be highly welcome. A candidate was not an employee of the Jagiellonian
	global recognition in his/her field, with scientific achievements, and an experience in management of a research group. We are looking for a
	5. Bearing the responsibility for professional integrity of the group. A candidate for a Leader of Research Group should be a scientist of
	(Flagship, ERC, National Science Centre, etc.).
	international research networks. 4. Active procurement of new research grants form external sources
	neural information and active role in setting up of
	3. Research leadership involving expansion to new fields of extracting
	the work of the group with other groups of the project.









Application deadline:	23 August 2019 (12 PM CEST)
General rules of the requirement process	 Candidates may run simultaneously for all position offered by the project. This must be declared in the application form. Decision will be made by the Scientific and Economic Committee (SEC) within three weeks from the date of closing the call. An interview is expected. SEC reserves the right to invite for the interview only pre-selected candidates. We expect that the interview will be held on during first two week of September 2019. The confirmation will be sent to the prospect candidates shortly after the 23rd of August. SEC's decision is subject to appear within seven days from its announcement. The final decision must be approved by Foundation for Polish Science. SEC reserves the right to close the competition without selecting the candidate. In the case of the resignation of a candidate recommended for the position of a Leader of Research Group, or failure to receive the Foundation for Polish Science's approval, SEC is re-assembled to re-evaluate the candidates earlier short listed for the interview, or may ask to publish a new call for the position. The results of the recruitment procedure may be appealed by the candidates within the period of one week after obtaining information about the decision SEC.
For more details about the position please visit	bionn.matinf.uj.edu.pl
Euraxess job/stipend offer (in case of PhD and postdoc positions):	Group leader (EURAXESS Job Offer id: 426454)

Due to the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, we also require that by applying, a candidate expresses his/her consent to the processing of his/her personal data needed for the recruitment process by the Jagiellonian University.







