JOB OFFER

Position in the project:	Junior Postdoc
Scientific discipline:	Computational neuroscience
Job type (employment contract/stipend):	employment contract
Number of job offers:	1
Remuneration:	≈ 8 000 PLN monthly (gross income)
Position starts on:	1 May 2020
Maximum period of contract/stipend agreement:	3 years
Institution:	Jagiellonian University, Cracow, Poland
Project leader:	Daniel Wójcik
Project title:	Bio-inspired artificial neural networks The project is carried out within the TEAM-NET programme of the Foundation for Polish Science
Project description:	The postdoc will work in one of two projects. The goal of the first is to develop point process models of neuronal spiking activity that could effectively describe adaptive processes including learning but also different types of modulation (e.g. brain-stem modulatory effects on visual information processing, etc.). The postdoc will develop abstract models, estimation methods, implement them in software, and use developed software and methods to analyze data from experimental partners after testing them on simulated data. The goal of the second project is building reinforcement learning models of behavior and development of estimation methods and tools. The focus is on rodent behavior in intelligent cages, such as IntelliCage or Eco-HAB, and taking into account individual and group learning aspects. The postdoc will develop abstract models, estimation methods, implement them in software, and









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The position is based in Cracow within the bioNN project but the researcher will also be a member of the distributed Warsaw-Cracow Neuroinflab, and will be expected to participate regularly in meetings in Warsaw every few weeks. The responsibility of the potential contractor shall be: 1. theoretical research, development of new algorithms and estimation methods, modelling, implementation, in the respective area of the project. Expective area of the project. Interaction with partners in the project bioNN to support development of novel bio-inspired computational architectures. We are looking for candidates with good quantitative and computational skills and a strong interest in biological and computational skills and a strong interest in biological and computational skills and a strong interest in biological and computational skills are required. Prior experience with neuroscience is not required but a strong interest in biology is a must. Profile of candidates/requirements: 1. PhD degree obtained during 5 years before the starting date of employment in this project. 2. strong mathematical and computational skills. 3. good command of English, 4. prior experience with computational modelling of the nervous system is an advantage. 1. filled in recruitment form (available at the project website). 2. curriculum vitae. 3. list of publications and ongoing research projects. 4. declaration of acceptance of intellectual property regulations within Jagiellonian University (available at the project website). 5. documents confirming possession of a PhD degree. 6. consent for processing of personal data for the purpose of recruitment (available at the project website). 1. full time employment for 36 months subject to periodic evaluation. 2. cooperation with the best computational neuroscience and machine learning groups in Poland. 3. competitive salary (about PLN 8,000 gross). 4. raising qualifications. 5. access to computing infrastructure. bionn@matinf.uj.edu.pl 20 March 2020 (11 PM CEST) 1. Candid		
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2. Selection decision will be taken by the Recruitment	General rules of the requirement process	offered by the project. This must be declared in the application
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	Committee (RC) by 25 th March 2020.
	3. Selected candidates will be invited to an interview between 30 March – 2 April 2020. The confirmation will be sent to the invited candidates by 26^{th} of March. The interview may be conducted through a teleconference.
	4. RC's decision will be announced by April 3 rd . The final decision must be approved by the Foundation for Polish Science.
	5. RC reserves the right to close the competition without selecting a candidate.
	6. In case of resignation of a recommended candidate or failure to receive the Foundation for Polish Science's approval, RC may invite further candidates or may announce a new call for the position.
	7. The results of the recruitment procedure may be appealed by the candidates within the period of one week after obtaining information about the decision of the RC.
For more details about the position please visit	bionn.matinf.uj.edu.pl
Euraxess job/stipend offer (in case of PhD and postdoc positions):	Junior Postdoc (EURAXESS Job Offer id: 496088)

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.







