

JOB OFFER

Position in the project:	PhD student
Scientific discipline:	systems biology
Job type (employment contract/stipend):	scholarship
Number of job offers:	1
Remuneration/stipend amount/month (“X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN”):	4000 PLN
Position starts on:	Negotiable, preferably May 2018
Maximum period of contract/stipend agreement:	3 years
Institution:	Institute of Fundamental Technological Research, Polish Academy of Sciences
Project leader:	Dr. Michal Komorowski
Project title:	<i>Deciphering of biochemical signaling to inform more efficient therapeutic strategies</i> <i>Project is carried out within the First Team grant of the Foundation for Polish Science</i>
Project description:	The overall molecular and biochemical mechanisms how individual cells transduce signals to effectors are widely understood. Biochemical descriptions, however, do not directly lead to understanding how the stimuli are translated into distinct responses as cellular signaling processes are immensely complex. The main goal of this project is to improve our understanding how cellular signaling processes can derive a variety of distinct outputs from complex inputs. To achieve this we will use an integrative approach that links tailored experiments with mathematical analysis. We will use interferon signaling as a model system to challenge the conventional concept of distinct signaling pathways that link signals with specific cellular responses. Further, we will explore our findings to examine how the interferon pathway can be therapeutically exploited in the context of anticancer therapies.
Key responsibilities include:	<ol style="list-style-type: none"> 1. Development of information- theoretic models of biochemical signaling 2. Statistical analysis of signaling data 3. Collaboration with experimental biologists 4. Design of experiments 5. Manuscript preparations
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. Background in mathematica, computer science, engineering or related field 2. Good programing skills (R, Python or Matlab) 3. Motivation for scientific work 4. Skills to perform scientific research 5. Good writing and science communication skills

Required documents:	<ol style="list-style-type: none"> 1. Motivation letter 2. CV including list of publications 3. Two reference letters 4. Track record of MSc courses 5. MSc certificate
We offer:	<ol style="list-style-type: none"> 1. Exciting research tasks 2. International collaborations 3. Support to develop new skills 4. Participation in international conferences and workshops 5. Support in application for additional funding and scholarships 6. Creative, innovative and friendly work environment
Please submit the following documents to:	contact@sysbiosig.org
Application deadline:	20.04.2018
For more details about the position please visit (website/webpage address):	sysbiosig.org or email m.komorowski@sysbiosig.org
Euraxess job/stipend offer (in case of PhD and postdoc positions):	

Please include in your offer:

“I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended.”