We are looking for a PhD student to implement research plans related to the prediction and analysis of protein-protein and protein-DNA / RNA interaction networks in the context of functional interpretation of structural data from the human genome

We are looking for a PhD student at the Laboratory of Functional and Structural Genomics at Centre of New Technologies at the University of Warsaw within the research project "iCell: information processing in living organisms. The role of three-dimensional structure and multi-scale properties in controlling the biological processes in a cell", OPUS grant, National Science Center.

Job description:
The research will be related to the prediction and analysis of interactions networks between proteins, multi-scale modelling of three-dimensional structure and its dynamics for biomolecules, as well as interactions predictions between proteins and DNA / RNA.

Requirements:
- fluent programming skills in C / C ++ / Python / R,
- knowledge of computational methods of biophysics, bioinformatics, computational genomics,
- communicative skills,
- the ability to work in an interdisciplinary team,
- fluent English at an advanced level,
- the main advantage will be the ability to model the structure of biopolymers, predict protein-protein interactions, protein-DNA / RNA, and extensive knowledge of machine learning methods.

We offer:
- a scholarship of 3000 PLN per month for 6 months,
- an interesting interdisciplinary subject of doctoral dissertations related to the implementation of the research project.

Required documents:
- motivation letter,
- CV with a description of scientific achievements,
- grade from the second level studies,
- copy of the master's diploma,
- PhD student status certificate,
- letter of recommendation from the previous academic supervisor.

If you are interested, please contact Professor Dariusz Plewczyński by e-mail: dariuszplewczynski[AT]gmail[DOT]com with the note [iCell]. Applications are accepted by January 31, 2018 or until the winner is selected. Employment planned from March 1, 2018. If the winner of the competition resigns from signing the contract, we reserve the right to choose the second person from the ranking list.

We invite you to work together!

Professor Dariusz Plewczynski and a team of the Laboratory of Functional and Structural Genomics