

JOB OFFER in SONATA grant

Position in the project: PhD student

Scientific disciplines: biophysics, physics, informatics

Job type: stipend

Number of job offers: 1

Stipend amount: 4500 PLN/month

Maximum period of stipend agreement: 2 months

Position starts earliest on: 1.05.2024.

Institution:

Nicolaus Copernicus University in Toruń, Poland
Faculty of Physics, Astronomy and Informatics
Institute of Physics

Project leader: dr. hab. Karolina Mikulska-Ruminska, prof. UMK (Poland)

Project title: Molecular mechanisms associated with the catalytic activity of the PEBP1-15LOX protein complex

Key responsibilities include:

1. Performing molecular dynamics (MD) simulations for 15LOX/PEBP1 complex in the presence of different components (classical MD and metadynamics)
2. Writing code in Python to create new tools (including machine learning approach) for analysis results from molecular dynamics (MD) simulations.
3. Preparation of scientific articles.
4. Presentation of research results at seminars and conferences.

Profile of candidates / requirements:

1. PhD student status (physics, chemistry, informatics or related)
2. Experience with NAMD program, Python programming language and ProDy API.
3. Experience with molecular dynamics simulations.
4. Basic oral and written communication skills in English.

Required documents:

1. CV,
2. motivation letter (optional),
3. contact details to at least one academic referee (not required for students affiliated at the Nicolaus Copernicus University in Toruń),
4. confirmation of the PhD student status (not required for students affiliated at the Nicolaus Copernicus University in Toruń).



Please submit the documents to:

karolamik@fizyka.umk.pl (scanned or pdf versions will be accepted).

Application deadline: 30.04.2024.

Please include the following sentence in your application: "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."