

Postdoctoral position available in computational biophysics

Employer Université de Lorraine

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Location Laboratoire Lorrain de Recherche en Informatique et ses Application (LORIA),
CNRS – INRIA – Université de Lorraine,
Nancy, France

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Expiration Applications will be considered until the position has been filled

Job description. A postdoctoral position in computational biophysics / molecular modeling is opened. This position is for a period of 12 months, renewable for 12 months upon tacit agreement, starting as soon as possible. The position is focused on the development of innovative computational tools for modeling protein – nucleic acids assemblies. One main focus will be the development of combinatorial representations of protein shape variability, to be implemented in macromolecular docking tools developed in the team [NAR_2016 <https://tinyurl.com/yaj969ao>, PloS_2016 <https://tinyurl.com/ycd3j4nd>]. These tools will be applied to large macro-molecular complexes involved in transmission of bacterial resistance, in the context of a collaborative project with experimental biologist (DynAMic, UL – INRA, Nancy).

Eligibility. Candidates must have a PhD degree in computer science, (bio-)physics, bio-informatics or structural biology. Strong programming skills (preferentially Python) are required. Skills in discrete mathematics, statistics and/or knowledge of molecular structures are very desirable. Experience with students co-supervision would be appreciated.

Working environment. The CAPSID research group develops computational tools for data mining on macromolecular assemblies and 3D modeling of those assemblies. We are part of an informatics-mathematics lab (LORIA), and have several collaborations with experimental biology teams.

Funding of the positions. The position is funded through the Lorraine University of Excellence initiative and the European Regional Development Fund (ERDF). The gross salary varies between 2,320 and 2,660 € per month, as a function of past experience, and includes medical benefits.

Application procedure. Applications should be sent in PDF format and must include a detailed recent CV, a list of publications, a cover letter describing the candidate's research interest and expertise, and the name of scientists willing to provide a letter of recommendation.