

Postdoctoral researcher position in crystallography and other structural studies of RNA, proteins, and macromolecular complexes Bujnicki group in IIMCB, Warsaw, Poland

We are looking for a postdoctoral researcher with experience in crystallography and interested in combining various experimental methods for structure determination of RNAs and RNA-protein complexes.

Key information about us:

- To have an idea of the working activity of the host group, check the website <http://genesilico.pl>
- We are an interdisciplinary team that combines basic science (to solve the mysteries of nature) and applied science (to make the discoveries practically useful). In our laboratory, software developers meet with experimental biologists, and high-throughput data analysis combines with sophisticated studies of individual biomacromolecules. We develop new computational methods, new tools for biotechnology, and molecules that will hopefully become drugs against diseases. Our goal is to understand the structure of RNA molecules, and design molecules that do not exist yet. We are also involved in efforts towards commercialization of our results.
- We are one of the most successful RNA modeling teams in the world: see rankings of RNA Puzzles. Our recent focus and biggest successes are in computational and experimental analyses of RNA and RNA-protein (RNP) complexes. For examples, see: *Smietanski et al.* Nature Commun 2014, *Boniecki et al.* Nucleic Acids Res 2015.
- We are hosted by IIMCB (<http://iimcb.gov.pl>), the top-ranked (A+) Polish research institute in biology, with cutting-edge equipment and facilities, in particular for bioinformatics, experimental molecular and structural biology. IIMCB also provides support for science commercialization, development of spin-off companies etc.
- IIMCB is an equal opportunity employer and holds 'HR Excellence in Research' logo for the implementation of the provisions of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers.

As a postdoctoral researcher you will lead our experimental structural biology analyses: Our laboratory has recently extended the scope of techniques used for protein, RNA and RNP structure determination. We are using X-ray crystallography and SAXS and extending our work to include AFM and cryoEM. The experimental research is linked with the development of modeling methods.

We are now looking for a postdoctoral researcher experienced in macromolecular crystallography (both in crystallization and crystal structure determination), interested in combining various experimental methods for macromolecular structure determination and in leading the experimental structural biology efforts in the lab. We encourage applications from candidates at any stage of their post-doctoral career. We are ready to discuss possibilities of long-term collaboration, and possibly the role of a senior scientist. Our ideal candidate should be able to pursue challenging tasks and achieve objectives, coordinate daily activities of the project team, collaborate with other researchers, including experimentalists and theoreticians.

Requirements:

- PhD in biology, chemistry, physics or related area
- Documented extensive experience in macromolecular crystallography (proteins and/or nucleic acids)
- Experience in protein and RNA biochemistry will be a strong advantage
- Experience in other techniques of structural biology (SAXS, AFM, cryoEM etc.) will be a strong advantage
- Organizational capabilities, creativity, proactive and collaborative attitude, communication and interpersonal skills
- Priority will be given to candidates with expertise most relevant to the project and to the profile of the laboratory

We offer:

- Full contract (umowa o pracę) initially 11,000 PLN/month (~6,000 average net), guaranteed for at least one year
- Extension and increased funding available, depending on success and grant/fellowship proposals
- Appointment starting in October 2018
- Position with 100% focus on research (no teaching obligations)
- Benefits including reduced-rate for an individual medical care package and membership in MultiSport programme
- Participation in courses, scientific training, support from peers, and academic mentoring

How to apply:

- We will collect applications until June 15th 2018
- **Apply now** (or ask any questions you may have) to employment@genesilico.pl
- In the subject include "**postdoc-crystallography**" and your first and last name
- Your application must be in English and should contain a CV, a motivation letter (What is your scientific dream and how do you want to fulfill it? What are your key strengths? Why do you want to work with us?), a description of your key achievements, and contacts to at least two potential referees, including at least one direct supervisor.
- Please include the following statement 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."
- Best candidate(s) may be given additional questions and tasks before the final interview.
- The competition may be repeated until a suitable candidate who fulfills all requirements is found.