



JAGIELLONIAN UNIVERSITY
IN KRAKÓW

INFORMATION OF THE COMPETITION

**DIRECTOR
OF MAŁOPOLSKA CENTER OF
BIOTECHNOLOGY**

Address: Gronostajowa 7A,
30-387 Krakow
Phone no. / fax.: 12 663 53 69

14.02.2020, Krakow

**DIRECTOR
of Malopolska Center of Biotechnology
in Jagiellonian University**
announces competition for the position of
LABORATORY TECHNICIAN

in the Bionanoscience and Biochemistry Laboratory (Azuma group)
within the scope of protein engineering

We are now recruiting a laboratory technician, who will potentially start his/her PhD course in October 2020, in our research team for the research program entitled "Engineered Bacterial Compartments for Protein Design and Production". This position offers you the opportunity to gain experience in laboratory evolution, one of the most powerful approach to obtain proteins with user-defined function, as well as in protein cage-based bionanotechnology, a hot research topic fueled by prospective applications in catalysis and medicine. You will be part of a start-up research group, led by Dr. Yusuke Azuma, that is developing artificial subcellular compartments for storage and catalysis through re-design and directed evolution of self-assembling protein cages (<http://www.heddlelab.org/Azuma.html>). The Azuma group bases in the partner laboratory of prof. Jonathan Heddle (www.heddlelab.org), located at a newly established institute of the Małopolska Center of Biotechnology in the beautiful city of Krakow, Poland. This technician position will be supported by a research grant from the European Molecular Biology Organization (EMBO), which provides you opportunities to attend conferences and training courses organized by EMBO.

Who Can Apply:

This laboratory technician post is for a person who fulfils requirements stated in the Article 113, 116 (2) (4) of the Act of 20th July 2018 Law on higher education and science of Poland, and who holds (or will obtain soon) a master, master of engineer, or equivalent degree.

More specific criteria to peruse the program and to join the research team are the following:

1. highly motivated to obtain skills and knowledge for protein engineering
2. be able to begin his/her PhD course in Jagiellonian University from October 2020
3. have at least 1-year work experience in a wet laboratory
4. have background studies in one of the fields related to this program, e.g. molecular biology, biochemistry, biophysics, structural biology, cell biology and chemical biology.
5. can cooperatively work with the colleagues in the institutes
6. proficient in spoken and written English.

Scope of work:

- Implementation of a research project under supervision of the project leader Dr. Azuma, which includes molecular cloning, protein expression and purification, and nanoparticle analysis using gel electrophoresis, dynamic light scattering, size-exclusion chromatography, and electron microscopy*
- Presentation of your research progress in the group meetings
- Preparation of general lab stocks, e.g. buffers or electrophoresis gels, for the group members
- Maintenance of research materials and instruments in the laboratory

* These experimental skills will be taught by the project leader

Our Offer:

- Part-time position (18-24 hours/week) with a monthly gross remuneration in the range of 2,000-3,000 PLN, later upgradable to PhD student or full-time technician position
- Access to the basic and modern research instruments for molecular biology and nanotechnology (spectrometers, dynamic light scattering, chromatography pump system, transmission electron microscopy, confocal microscopy, fluorescent-activated cell sorting, etc.)
- Opportunities to present your work in international conferences
- Ability to join an international and dynamic group of researchers
- Excellent training: In our diverse group you will be able to network with international researchers, experience about new skills in protein design, enzyme kinetics, structural biology, cell biology, nanoparticle analysis etc.
- Discounted membership of sports facilities (“Multisport”, <https://www.benefitsystems.pl/en/for-you/multisport/>)
- Subsidized social events (theater tickets, hotels etc)

How to Apply:

Send applications (as a single PDF file, written in English and using at least 11 pt font size) directly to the project leader, Azuma (yusuke.azuma@uj.edu.pl). Applications should be marked “EMBO_Tec” and include the followings:

- A. Motivation letter, including why you are interested in joining our team
- B. Curriculum vitae, including your experimental skills

Important Dates:

Competition commencement date: **14th February 2020**

Applications deadline: **22nd March 2020**

The project starting date: **1st May 2020**, or as soon as possible thereafter

Should you have any questions about the criteria and application, please contact to yusuke.azuma@uj.edu.pl. Jagiellonian University does not provide housing.

On the basis of authorisation
of the Director of Małopolska Centre of Biotechnology