

Masters Student Position Available in Protein Nanoscience

Bionanoscience and Biochemistry Laboratory (Heddle Lab) Malopolska Centre of Biotechnology, Krakow, Poland

We are now recruiting a Masters student to join our new team designing and building DNA-membrane protein nanomachines for use in artificial cells. The project offers the opportunity to gain experience in a new area of synthetic biology, which will become increasingly important in the future. It also offers the chance to work in a dynamic, international team working closely with partners across the globe including Japan and Germany where we have an official collaboration with Max Planck Institute of Medical Research in Heidelberg.

You will join the Heddle lab (www.heddlelab.org), a newly established, innovative lab carrying out ambitious research aimed at designing and building artificial biological nanomachines using DNA, protein and lipid building blocks. We are located in a state-of-the-art laboratory, based at the new Malopolska Centre of Biotechnology, in the beautiful city of Krakow, Poland

Details of Project: The successful candidate will join a FNP "TEAM" project that aims to design and build novel DNA-based nanomachines able to interact with specific proteins and help construct artificial cells. The project is carried out in collaboration with Ilia Platzman at the Max Planck Institute of Medical Research in Heidelberg, Germany. Your contribution to the team will be: **1.** In silico design of membrane proteins. **2.** Production and purification of designed membrane proteins **3.** Production of lipophilic proteins. **4.** Interaction of DNA nanomachines with specific membrane proteins and measuring of the interaction (with other team members). **5.** Structural assessment of designed DNA origami nanomachines using AFM (in collaboration with cryo EM experts)

Requirements

1. Have some experience in general molecular biology and protein biochemistry methodologies
2. Some experience of working with proteins (preferably membrane proteins)
3. Should be willing to learn new techniques
4. Have good written and oral communication skills in English
5. Able to work collaboratively

Important Dates

- Application Deadline: August 10th 2017
- Start Date: October 2nd 2017

Our Offer

- Masters Fellowship with competitive stipend
- Position for 18 months with possible extension after the project ends
- Excellent training: In our diverse group you will be able to network with international researchers, experience and learn new skills including in DNA origami design, enzyme biochemistry, structural biology, protein design etc.

How to Apply

Send applications to jonathan.heddle@uj.edu.pl applications should be marked "FNPMS" and include the following:

1. Copy of undergraduate degree certificate
2. Contact details of a minimum of two referees including a former academic supervisor
3. Motivation Letter
4. CV
5. Your application must include the following statement: "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."

The best candidates may be interviewed shortly after the application deadline.

