ESR 12 Project Information Sheet

Project Title	*Artificial organelles in cells*
Reference number	BIOMOLMACS_ESR_12
Host Institution/Company	University of Basel
Supervisor(s)	Prof. Wolfgang Meier
Research Group	Meier Group
Department/School	Department of Chemistry
Duration	36-months full-time employment contract provided and ESR enrolled on 4- year structured PhD. ESR should be required to self-fund after the initial 36 months for successful completion of the PhD program at the University of Basel.
Funding information	Funding agency: H2020-MSCA-ITN-2019 (Proposal no:859416)
Early Stage Researcher Salary and Allowances	Living allowance: ***approximately*** €45,000/year + mobility allowance of €7,200/year + family allowance where applicable (**all values before tax and social security payments**) This calculation is to give you an idea about the level of funding. The actual salaries can be found on the official job application link below.
Pre-application closing date	28th of February 2020
Official application closing date	15th of March 2020
Start date	1st of April 2020 or as soon as thereafter
Official job application link*	https://www.euraxess.ch/jobs/search/country/switzerland https://www.unibas.ch/de/Mitarbeitendenportal/Aktuell/Offene-Stellen.html

**The pre-application form should be submitted to biomolmacs@gmail.com by latest 28th of February 2020. Following the initial eligibility assessment, the applicants will be requested to submit their applications using the links provided specific to each institution/company.*

Post Summary
Brief description of the project:
ESR 12 will focus on the development of molecular factories for in-vivo drug production and release. An efficient and selective encapsulation of active nanoreactors is the basis for locally producing specific drugs. The selective encapsulation of nanoreactors in a larger compartment is based on newly synthesized, biodegradable, amphiphilic block copolymers. The kinetics of the reaction cascade in the nanoreactors has to be quantified in solution, in-situ and in-vivo. This requires combination of several sensitive methods like dynamic spectroscopy, fluorescence correlation spectroscopy etc.

Further information on the research interests of Prof. Wolfgang Meier can be found on their website.
https://www.chemie1.unibas.ch/~meier/

Standard duties and responsibilities of the ESR
For the 36 months of employment contract the ESR will be required to work exclusively on the MSCA ITN programme (BIOMOLMACS). In all cases, all duties and responsibilities will be clearly outlined in the researchers Personal Career Development Plan, as determined in the early stages of the project between the ESR and their supervisory committee.

Person Specification
Qualifications
Essential
Applicants should hold or expect to attain, as a minimum a 2:1 Honours degree, or equivalent, in Chemistry, Materials Science, Biomedical Science, Polymer Chemistry, Pharmaceutics or related area.

Knowledge and Experience
Essential
- Research project carried out in at least one of the above disciplines.
- A demonstrated knowledge of at least three of the following: pharmaceutical formulation development, drug delivery, cell culture/molecular biology, nanotechnology, polymerisation techniques.

Desirable
Work placement undertaken in an industry related to the above disciplines

Skills and Competencies
Essential
- Applicants whose first language is not English must submit evidence of competency in English, please see University of Basel's English Language Requirements for details.
- Evidence of interest, aptitude and research experience in the above disciplines.

Further information
For any informal queries, please contact Prof. Wolfgang Meier by email at wolfgang.meier@unibas.ch

For queries relating to the application and admission process please contact Dr Gokhan Yilmaz at biomolmacs@gmail.com
Website: www.biomolmacs.com
