

ESR 2 Project Information Sheet

Project Title	<i>Amphiphilic Molecular Motors for Cellular Recognition and Uptake</i>
Reference number	BIOMOLMACS_ESR_2
Host Institution/Company	University of Groningen
Supervisor(s)	Prof. Ben Feringa
Research Group	Feringa Research Group
Department/School	Stratingh Institute for Chemistry
Duration	48-months full-time employment contract in accordance with the Collective Labour Agreement for Dutch Universities, of which 36 months within the ITN framework.
Funding information	Funding agency: H2020-MSCA-ITN-2019 (Proposal no:859416)
Early Stage Researcher Salary and Allowances	Living allowance: approximately €40,000/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	28 th of February 2020
Official application closing date	15 th of March 2020
Start date	1 st of April 2020 or as soon as possible thereafter.
Official job application link*	https://www.academictransfer.com/en/ https://www.rug.nl/education/phd-programmes/prospective/current-phd-vacancies?lang=en

**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:

Light-driven molecular motors offer the opportunity to introduce responsive behaviour triggered by a non-invasive external signal with high spatial-temporal precision. Besides mechanical action a unique feature is that the system is driven out-of-equilibrium as long as an input (light energy) is supplied. The objective is to design amphiphilic motors for cell cellular recognition, transport into the cell and integrating artificial motors into membranes. ESR will be studying such molecular motor systems for cellular recognition and uptake.

Further information on the research interests of Prof. Ben Feringa can be found on their website.

<http://www.benferinga.com>

Standard duties and responsibilities of the ESR

For the first 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, Analytical Chemistry, Organic Chemistry, Biomedical Science, Polymer Chemistry, Pharmaceuticals 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 Groningen'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 Dr Anouk Lubbe by email at a.s.lubbe@rug.nl

For queries relating to the application and admission process please contact

Dr Gokhan Yilmaz at biomolmacs@gmail.com

Website: www.biomolmacs.com
