

ESR 4 Project Information Sheet

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| Project Title | <i>Cell-membrane penetrable glycopolymer anchors</i> |
| Reference number | BIOMOLMACS_ESR_4 |
| Host Institution/Company | University of Warwick |
| Supervisor(s) | Prof. Remzi Becer |
| Research Group | Becer Research Group |
| Department/School | Department of Chemistry |
| Duration | 36-months full-time employment contract provided and ESR enrolled on 4- year structured PhD. ESR may be required to self-fund after the initial 36 months for successful completion of the PhD program at the University of Warwick. |
| 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.jobs.ac.uk |

**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:

Becer group has a long experience in the synthesis and biological applications of glycopolymers. The main objective of ESR4 will be to design sugar containing block copolymers that can be incorporated in artificial cell membranes. These sugar moieties will provide artificial cells the means to recognize and communicate with each other as well as living cells. The sequences of the carbohydrate units are critical for specific recognition behavior. Thus, various carbohydrate sequences will be developed within this project.

Further information on the research interests of Prof. Remzi Becer can be found on their website.

www.becergroup.com

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, 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 Warwick'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. Remzi Becer by email at

remzi.becer@warwick.ac.uk

For queries relating to the application and admission process please contact

Dr Gokhan Yilmaz at biomolmacs@gmail.com

Website: www.biomolmacs.com
