

Marie Skłodowska-Curie Post-doc Positions in Germany

“Expression of Interest” for hosting Fellows

This template should be used by institutions interested in hosting post-doctoral fellows within the Marie Skłodowska-Curie Individual Fellowship programme. Host institutions should be located in Germany.

1. Valid for the following MSCA-IF Calls¹:

| | |
|--------|--------|
| | x 2019 |
| x 2018 | x 2020 |

2. Interested host institution:

Technische Universität Berlin

Straße des 17. Juni 124
10623 Berlin

Name of EU liaison officer (EU-Referent/in), if applicable: Sabine Hutfilter;
sabine.hutfilter@tu-berlin.de

3. Institute/Department:

Institute for Chemistry,
Nanopatterned Biomaterials

Website (Hyperlink): www.lensenlab.de/

4. Contact person (name and e-mail address):

Prof. Dr. Marga C. Lensen
Lensen@chem.tu-berlin.de

¹ MSCA Individual Fellowships are selected on the basis of annual calls for proposals. Forthcoming and open calls for proposals can be found on the [Participant Portal](#) of the European Commission under “Funding Opportunities” and “Calls/H2020”.

5. Project idea/position (scientific requirements, topic, discipline):

Rough outline of idea/position:

Our research in the Lensen Lab focuses on three intertwined aspects; **i)** design and synthesis of novel biomaterials based on polymers and hydrogels, exploiting different chemical crosslinking strategies; **ii)** micro- and nano-patterning of the biomaterials' surface using soft lithography techniques and functional nanomaterials, e.g. metallic (gold), ceramic (hydroxyapatite) and magnetic (ferrite) nanoparticles. In addition, 3D structuring of bulk hydrogels to form scaffolds and **iii)** controlling cell behavior, i.e. adhesion, spreading, migration and growth for tissue engineering and biomedical applications. Besides, novel biosensor applications are investigated using unique patterned hydrogels with gold nanoparticles (Au NPs) and surface enhanced Raman scattering (SERS) as the spectroscopic readout technique.

Please tick:

Life Sciences

Natural Sciences

Engineering Sciences

Social Sciences and Humanities

6. Deadline² for considering interests by post-doctoral applicants:

10 weeks before the deadline of the Call

² Please consider that the preparation of a Marie Skłodowska-Curie proposal requires some time. Fellow and supervisor have to agree on a project and training opportunities for the fellow.