

## “Expression of Interest” for hosting Marie Skłodowska-Curie Postdoctoral Fellowships in Germany

Institutions interested in hosting postdoctoral fellows within the Marie Skłodowska-Curie Postdoctoral Fellowships programme should use this template. Host institutions should be located in Germany.

### 1. Valid for the following MSCA-PF Call<sup>1</sup>:

Please tick:

2021

2022

### 2. Interested host institution:

Technische Universität Braunschweig

Name of EU liaison officer (EU-Referent/in), if applicable: <https://www.tu-braunschweig.de/en/eu-buero/europaeische-forschungsfoerderung/msca-funding-for-postdocs>

### 3. Institute/Department:

µ4Life – Microsystems for Life Sciences JRG (AG Winkler)  
Institute for Microtechnology & Center for Pharmaceutical Engineering

Website (Hyperlink):

<https://lab.winkler.site>

<https://www.tu-braunschweig.de/imt>

<https://www.tu-braunschweig.de/en/pvz>

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

Thomas E Winkler, PhD  
thomas.winkler@tu-braunschweig.de

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

You are a highly motivated Ph.D. graduate looking to apply for a Postdoctoral Fellowship in the Organ-on-Chip field, seeking a suitable host institution. You have excellent documented research expertise in stem cell biology, neuroscience, microfluidics, biosensing, or another topic applicable to Organ-on-Chip research. You are excited about interdisciplinary applications of engineering to gain insights into biology, especially relating to neuropsychiatric disorders (NPD; e.g. schizophrenia),

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<sup>1</sup> MSCA Postdoctoral Fellowships are selected on the basis of annual calls for proposals. Forthcoming and open calls for proposals can be found on the [Funding & tender opportunities Portal](#) of the European Commission.

and wish to develop your skills in that direction. Your specific interests & ideas could include development/characterization of:

- Stem cell-based biological models of NPD, e.g. blood-brain barrier, gut-brain axis
- Microfluidic systems to better recapitulate the in-vivo environment
- Sensors for continuous monitoring of biological function

Related research ideas, e.g. toward Lab-on-a-Chip/point-of-care applications, may also be considered.

The new  $\mu$ 4Life research group – established by a former MSCA-IF grantee – has the goal of solving life science challenges using microsystems tools. The group is based at PVZ & IMT (see below), which offer state-of-the-art laboratory facilities for both biology and microengineering. As part of a small and dynamic team, you will be able to benefit from supportive and personalized supervision, including also the application phase. Secondments (where applicable), especially to Stockholm, can be facilitated.

To express your interest, please submit a Cover Letter, clearly stating your motivation & research interests for seeking a postdoc in the  $\mu$ 4Life lab (2 pages), as well as your academic CV. If you already have one or more specific research idea(s), you can also include a brief sketch of these (entirely optional).

Please tick:

- Life Sciences
- Natural Sciences
- Engineering Sciences
- Social Sciences and Humanities