

## 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 Calls<sup>1</sup>:

<input checked="" type="checkbox"/> 2019	<input checked="" type="checkbox"/> 2021
<input checked="" type="checkbox"/> 2020	<input type="checkbox"/>

#### 2. Interested host institution:

TU Chemnitz

Name of EU liaison officer (EU-Referent/in), if applicable:

#### 3. Institute/Department:

Technische Universität Chemnitz  
Faculty of Electrical Engineering and Information Technology  
Chair of Digital Signal Processing and Circuit Technology  
Prof. Dr.-Ing. Gangolf Hirtz

Website (Hyperlink): <https://www.tu-chemnitz.de/etit/dst/professur/index.php.en>

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

Christian Wiede

[christian.wiede@etit.tu-chemnitz.de](mailto:christian.wiede@etit.tu-chemnitz.de)

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<sup>1</sup> 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:

All European countries are facing the problem of a steadily ageing society. This development goes hand in hand with a higher demand for technical assistance systems, which can support elderly people in their daily living. In order to monitor the health status of a person, the determination of vital parameters is a crucial element. Conventional systems that determine vital parameters require body contact and are therefore uncomfortable for the person who wears such as system. In contrast to that, contact-less optical methods based on image processing do not share this problem.

One focus of this work is to evaluate and remove noise and artifacts, which affect the measurements of vital parameters. Thereby, the connection with related research fields is an essential point.

You should bring the following requirements:

- Master's degree in computer science, electrical engineering, biomedical engineering or a close related discipline
- Good knowledge in the fields of computer vision and image processing
- Knowledge in the field machine learning advantageous
- Experience in at least one of a programming language (e.g. C++, Python, Matlab)
- Excellent analysis skills and an analytical mind-set, as well as excellent communication skills, including written
- An ability to work independently and as a member of a research team
- Ability to review and engage with interdisciplinary studies
- English language proficiency. Basic knowledge of German advantageous

Please tick:

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

**6. Deadline<sup>2</sup> for considering interests by post-doctoral applicants:**

31.01.2019
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<sup>2</sup> 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.