



Hosting offer for Marie Skłodowska-Curie Postdoctoral Fellowships (PF) 2022 at University of Cyprus / Microwave Photonics Research Laboratory (EMPHASIS Research Centre)

[MSCA Postdoctoral Fellowships](#) are individual research grants offering excellent postdoctoral researchers the chance to develop their skills by means of international mobility. Through the implementation of an original and personalised research project, MSCA Postdoctoral Fellowships aim to foster excellence through training and mobility and to equip researchers with new skills and competences in order to identify solutions to current and future challenges.

The Microwave Photonics Research Laboratory, EMPHASIS Research Centre at the University of Cyprus invites motivated postdoctoral researchers to jointly prepare an application for the [MSCA-PF-2022 call Marie Skłodowska-Curie Postdoctoral Fellowships](#) call ([MSCA-PF-2022](#)) with them as host organisation.

Description of Hosting organisation/group

Microwave Photonics Research Laboratory (MPRL): The MPRL is a constituent laboratory of EMPHASIS. Our activity is focused on the development of innovative devices and systems for microwave photonics, with an emphasis on applications in mm-wave radio over fibre, photonics for 5G and mm-wave signal generation, including optoelectronic oscillators and optical combs. Particular attention has been given in recent projects to the emerging field of integrated microwave photonics, in both indium phosphide and silicon nitride, and to the application of photonics in space (e.g. for telecommunication satellite payloads).

In order to conduct research in this area, MPRL has developed comprehensive test-beds and is equipped with state-of-the-art photonic test equipment and optical benches, in addition to a comprehensive suite of microwave instrumentation in order to deal with modulated optical signals. MPRL has a range of CAD software in electronics, microwaves and photonics, such as ADS, Cadence, VPI, Lumerical and PhoeniX.

EMPHASIS Research Centre at UCY (emphasis.ucy.ac.cy/): The EMPHASIS (Electronics, Microwaves, Photonics and Sensors) Research Centre at UCY was established in 2016 as an interdisciplinary group involving researchers from several departments in the School of Engineering and School of Pure and Applied Sciences. Our staff is a blend of junior and senior faculty; all of them widely accomplished in their respective fields of expertise, holding distinctions such as editorships of journals and IEEE Distinguished Lectureships, and have jointly received several million euro in research grants. They have long-standing worldwide collaborations with industry and academia.

<http://www.emphasis.ucy.ac.cy/>

Topics/expertise

Ideally you will have a background in one or more of the following areas:

- Microwave photonics
- Integrated photonics
- Optoelectronics
- Optical communications

- Microwave engineering

Your profile

- Expected qualifications/expertise of the candidate:
 - A PhD degree in electronics, electrical engineering or physics is required.
- You must have a completed PhD at the time of the call deadline (14 September 2022).
- Candidates must have a maximum of 8 years full-time research experience from the PhD award date until September 14, 2022. Periods of inactivity in research (e.g. unemployment, periods of employment outside research, parental or sick leave) do not count towards the time of research experience.
- For European fellowships, candidates can be of any nationality and must not have resided or carried out their main activity (work, studies, etc.) in Cyprus for more than 12 months in the 36 months immediately before September 14, 2022.
- Highly motivated candidate with an excellent research track record appropriate to career stage, as evidenced by academic publications and other scientific output.

What we offer

- Support and guidance for the preparation of your MSCA PF proposal
- A stimulating, interdisciplinary environment for high-level research.

How to apply?

Indicate your interest by contacting the host institution as follows:

Please contact Prof. Stavros Iezekiel by email (iezekiel@ucy.ac.cy) with a short CV and motivation to indicate your interest to prepare a MSCA-PF application with a supervisor and host group

After the supervisor agrees to support you as a MSCA-PF candidate, you can start preparation of MSCA PF project proposal and will be supported further by the Research Support Office of the host university.

For more information please contact the MSCA coordinator of the host institution at rss@ucy.ac.cy