



Call for Expression of Interest
Marie Skłodowska-Curie Postdoctoral Fellowship
(HORIZON-MSCA-2024-PF-01-01)

The University of Malta (UM) is interested in hosting Marie Skłodowska-Curie Action fellows to work in its research teams and welcomes expressions of interest from excellent post-doctoral researchers to apply for the Postdoctoral Fellowship call.

University of Malta (UM) is the sole public and highest teaching institution in Malta, with its structures being in line with the Bologna Process and the European Higher Education area. UM has a 400-year history and there are over 11,500 students including 1,000 foreign/exchange students from nearly 92 different countries, following fulltime or part-time degree and diploma courses. Around 3,500 students graduate each year. UM is comprised of 14 Faculties and several other campuses: at Valletta, Marsaxlokk and Gozo. As of 2020, the UM employed a total of 2,848 employees including academics, administrative, technical and industrial staff (1,885 on a full-time basis and 963 on a part-time basis). Over the past ten years, the UM has been involved as coordinator and partner in numerous EU-funded projects under various Programmes including Horizon Europe, Horizon 2020, FP7, Erasmus+, Lifelong Learning Programme, INTERREG, National Funding and various other international and national programmes and initiatives. The UM is also represented in a number of European and International University networks and groups.

[Faculty of Engineering](#)

[Department Electrical Engineering](#)

The Department of Electrical Engineering forms part of the Faculty of Engineering at the University of Malta. The department has been at the forefront of research and lecturing in various areas of electrical engineering: Power Electronics and Distributed Generation; Power Systems and Grid Integration of Renewable Energy Sources (RES); Electrical Machines and Drives; and Electrical Services. Our academic staff members are actively involved in state-of-the-art research and strive to achieve research excellence in: Electrical Drives; Electric Transportation; Renewable Energy Systems for Grid Integration; Microgrids and Smart Grids; Energy Efficiency in Domestic, Commercial and Industrial Applications; Design of Electromagnetic Systems; Power Converters; Power Quality and EMC. Research programmes leading to M.Phil., M.Sc. (by research) and Ph.D. degrees are also offered to postgraduate students in research areas where staff members are active.

HVDC (High Voltage Direct Current) microgrids serve as vital infrastructure for island communities, offering efficient and reliable energy distribution. This research area focuses on harnessing HVDC technology to establish resilient island microgrids, acting as the backbone of energy systems on islands. By integrating diverse renewable energy sources and employing advanced control strategies, these microgrids optimize energy utilization, enhance grid stability, and reduce reliance on imported fossil fuels.

Research Field: Information Science and Engineering (ENG)

Keywords: Microgrids



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The selected candidates will receive dedicated support from the supervisor [Prof. Alexander Micallef](#), and the Research Support Services Directorate to write a successful proposal and submission.

Interested candidates must be in possession of a doctoral degree with not more than 8 years post PhD research experience and must not have resided in Malta for more than 12 the past during the past 3 years. Furthermore, their research interests should be relevant to the above project. Kindly send a covering letter and CV to the corresponding supervisor, [Prof. Alexander Micallef](#), keeping in copy funding.rssi@um.edu.mt with 'MSCA-PF-2024 *'candidate name'*' as the email subject by **24 May 2024**.