Greenroads Limited
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Marie Skłodowska-Curie Postdoctoral Fellowships 2021

Call for Postdoctoral Researchers

Greenroads is interested in welcoming researchers who wish to apply for 1 to 2 years Postdoctoral Fellowship in the framework of the new Marie Skłodowska-Curie Actions (MSCA) programme. The successful applicants will be notified in February 2022 and will be able to start their fellowship any time between May 2022 and September 2023.

The Marie Skłodowska-Curie Actions Postdoctoral Fellowships grant, can cover two years' salary, a mobility allowance, research costs and overheads for Greenroads. (Living and mobility allowances should be around Eur 5000 monthly but the exact details of the work programme will be published in May)

Greenroads is a young company based at TAKEOFF within the University of Malta, with experience in the development of computer vision and machine learning technology, and is currently developing solutions for the transport and smart cities markets. Of particular interest is the development of technology in the area of multi-modal data collection and its application to road junction analysis, accident prevention (particularly for vulnerable road users) and in the understanding of new mobility modes. We will consider a spectrum of postdoctoral research skills particularly in relation to multi-modal data collection, computer vision, AI, big data science and GIS. Candidates from humanitarian sciences including behavioural change and citizen engagement and an interest in technology will also be considered.

If interested please email Greenroads on rockstar@greenroadsmalta.com

Information on supervisors

Prof. Adrian Muscat
Prof. Adrian Muscat is engaged by Greenroads Limited as a Mobility Solutions Expert focusing on multi-modal data collection and novel **transport solutions architecture**.
He holds the post of professor at the Department of Communications and Computer Engineering, Faculty of Information and Communications Technology, University of Malta. He received the Ph.D. in Electronics Engineering from Queen Mary University of London in 2002, the M.Sc. Degree in RF and Microwave Engineering from the University of Bradford in 1996, and the B.Sc. degree in Electrical Engineering from the University of Malta, 1993.
He contributed to the development and application of machine learning techniques in the joint area of computer vision and language, with special emphasis on detecting spatial relations in images and video, image description generation and visual question answering with potential applications in visual chat bots, analysis of documents including diagrams, robotics in maintenance and assisted living and autonomous vehicles. In addition he carried out research and attracted funds in transport, mainly in shared mobility solutions and data collection techniques and more recently in multi-modal data collection methods. He participated in several funded research projects (european and local-funding) either as principle investigator or co-investigator and published more than 100 papers in international scientific journals and conferences.

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Dr. Kenneth Scerri

Dr. Kenneth Scerri is the Transport Technology Expert for Greenroads. He is a senior lecturer at the Department of Systems and Control Engineering at the University of Malta. Dr Scerri holds a Bachelor's Degrees in Electrical Engineering from the University of Malta (Malta), a Masters degree in System Engineering from Oakland University (Michigan, USA) and a Doctoral Degree in System Modelling from the University of Sheffield (Sheffield, UK).

Throughout his academic studies and research career, Dr Scerri has focused on the application of signal processing, control theory and AI in the fields of transportation and automation. His initial research work delved on the use of AI in robotics and industrial control applications. Following the completion of his doctoral studies, on the analysis of spatio-temporal behaviour with applications to marine and air pollution, Dr Scerri shifted his efforts to transportation with particular interest in local urban transportation.

During this period, he supervised research work on the development of novel strategies for transport modelling with 3 conference publications and a high-impact journal publication in this field. This work led to the use of AI in the control of traffic volumes in urban areas with further publications both at international conferences and in journals. In this field he is participating as lead or partner in a number of locally and European funded projects in collaboration with local industry, local councils and international partners.

In 2014, during a two year break from academia, Dr Scerri furthered his career development in industry, working for Egemin Automation (now Dematic), in Antwerp Belgium, as an AI expert and data scientist. Here he applied AI solutions for automation products in IoT and BI projects for industrial applications.

On his return to the University of Malta in 2016, Dr Scerri sought to integrate his industrial experience with his academic background, working on projects developing AI solutions in the transportation industry through cloud computing and IoT products.

Information on Application Process and Eligibility

Once accepted by Greenroads, Individual candidates will be required to submit proposals for funding under this competitive call through the European Commission's Funding and Tenders portal. Applicants will be supported by the designated supervisor. The call is expected to open on 18 May 2021 and close on 15 September 2021.

MSCA-PF eligibility criteria: (are these standard requirements by the programme we can be flexible) Yes, those are the eligibility requirements of the programme.

- The candidate may be of any nationality
- The candidate must be, at the date of the call deadline, in possession of a doctoral degree
- At the call deadline, supported researchers must have a maximum of 8 years full-time equivalent experience in research, measured from the date that the researcher was in possession of a doctoral degree and certified by appropriate documents.
- The candidate cannot have resided or carried out his/her main activity (work, studies, etc.) in the country of the beneficiary (Malta) for more than 12 months in the three years immediately before the call deadline
- Only one proposal per candidate may be submitted to PF call