

EOI – EXPRESSION OF INTEREST

Contact Person / Scientist in charge

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Department / Institute / centre

Name:	Department of Automation, Electronics and Computer Architecture and Networks Biomedical and Telemedicine Research Group (IBT – TIC212) Institute of Research and Innovation in Biomedical Sciences of the Province of Cadiz (INIBICA)
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Project Description(max. 1800 characters)

The Biomedical Engineering and Telemedicine Research Group (IBT) is a multidisciplinary group composed of researchers from the University of Cadiz and the Andalusian Public Health System, rooted in the engineering field and the health sector. The IBT Group focuses its research activities on the development of methods for the biomedical signals and images analysis to support the diagnosis of different pathologies, and on the generation of predictive models using Big-Data and Artificial Intelligence techniques. And all this with applications to the field of cardio-respiratory medicine, digital pathology, e-health and m-health. One of our most active research lines at present is related to computational pathology. In this regards, we are willing to support applications in the area of computer vision and artificial intelligence applied to the pathology field. We are willing to support one or more excellent researchers of any nationality interested in applying for a EU Marie Skłodowska Curie Individual Fellowship and continuing their scientific career in the south of Spain for a period of at least 2 years. The offer is to collaborate in research activities related with the application of:

- Pattern recognition in images and videos.
- Deep Learning techniques
- New approaches for the segmentation of complex (medical) images.
- Deep multimodal data fusion for pathology applications (image, genomics, proteomics, history)
- Explainable Artificial Intelligence (XAI)

Researchers with a good scientific background are encouraged to contact us. Our team will work in tandem with the selected candidates in the preparation of their candidature in order to submit a successful application to this competitive programme. The MSCA fellow will be fully integrated in the research group, benefiting from a range of research and academic activities, including the collaboration in research projects, the participation in supervision of Ph.D., master and degree theses, the attendance of international conferences and meetings and other transversal activities.

Key Skills, Experience and Qualifications

- PhD in biomedical engineering, computer science, or related fields
- Background in medical imaging, image processing, machine learning and computer vision
- Proficiency in Python programming
- Ability to work in a team and interdisciplinary environment
- Scientific creativity and originality, problem-solving skills, autonomy and initiative.
- Fluency in English.

Research Area (select)

	Chemistry (CHE)
	Social Sciences and Humanities(SOC)
	Economic Sciences (ECO)
x	Information Science and Engineering (ENG)
	Environmetal Sciences and Gelogy (ENV)
	Life Scientes (LIF)
	Mathematics (MAT)
	Physics (PHY)

Applications: documents to be submitted and deadlines

If you are interested in applying for MSCA-IF, please submit by email to: daniel.morillo@uca.es (no later than 30th of June 2020) the following documents:

- CV.
- Letter of motivation. This should include information concerning your research and career interests and goals, giving careful consideration to how your interests match with this call.
- List of publications.