



MCAST

HORIZON EUROPE Research and Innovation Framework Programme MARIE SKŁODOWSKA-CURIE ACTIONS

EXPRESSION OF INTEREST Postdoctoral Fellowships (PF) HORIZON-MSCA-2023-PF-01

Organisation Name/ Department <i>(if applicable)</i>	Organisation name: Malta College of Arts, Science and Technology	
	Centre: Applied Research and Innovation Centre (ARIC)	
Website of the organisation <i>(in English)</i>	https://mcast.edu.mt/applied-research/	
Organisation Short Name	MCAST	
Organisation Type	<input checked="" type="checkbox"/> Academic <input type="checkbox"/> Non-academic	<input checked="" type="checkbox"/> Higher Education establishment <input type="checkbox"/> Research organisation <input type="checkbox"/> International European Research Organisation <input type="checkbox"/> SME <input type="checkbox"/> Other (please specify)
Research Fields	<input type="checkbox"/> Chemistry (CHE) <input type="checkbox"/> Social Sciences and Humanities (SOC) <input type="checkbox"/> Economic Sciences (ECO) <input type="checkbox"/> Information Science and Engineering (ENG) <input checked="" type="checkbox"/> Environment and Geosciences (ENV) <input type="checkbox"/> Life Sciences (LIF) <input type="checkbox"/> Mathematics (MAT) <input type="checkbox"/> Physics (PHY)	
Sub-Fields/ Keywords <i>(up to 5)</i>	<ul style="list-style-type: none">• Water/Marine and Coastal Management• Marine Spatial Planning• Marine Environmental Policy• Geomatics & Spatial analysis for environmental management• Earth observation for environmental management	
Marie Skłodowska-Curie Action(s) of interest	<input checked="" type="checkbox"/> European Postdoctoral Fellowships <input type="checkbox"/> Global Postdoctoral Fellowships	
Short Description of the Organisation/ Department - strengths and scientific achievements	The Applied Research and Innovation Centre (ARIC), which is situated in MCAST Resource Centre, is part of	



(publications, patents, etc.),
important infrastructure
(up to 2000 characters with spaces)

the College's strategic plan, giving rise to a dynamic learning space, where knowledge and innovation thrive.

Research equipment at ARIC:

- Visualisation Wall (1 year old) - Multiple high-resolution displays are arranged into a single, curved, large display surface. It enables viewers to see large amounts of data at once and allows for interactive exploration and analysis of the data, training and simulation.
- Optical motion-capture cameras (1 month old)
- A versatile system with a number of applications in the life sciences, engineering, virtual reality, virtual production, and animation, able to capture motion with high accuracy and high positional and angular precision.
- Virtual Reality Headsets (1 year old)
- Robots (6 months old) - Teleoperation making it useful for tasks that require remote control, such as telepresence, remote inspection, or teleoperation in hazardous environments.
- Semi-humanoid robot (In final stages of procurement) - it combines advanced technology with human-like features to provide an engaging, personalized, and interactive educational experience for students.
- 360-degree camera (3.5 years)

Licences available at ARIC

- MAXQDA® -- software package for qualitative data analysis and mixed methods research.
- IBM® SPSS® -- statistical software platform.

Other significant research infrastructure available within MCAST's institutes

Institute of Applied Sciences:

- PT20 Test Water Rig Facility at the Institute of Applied Sciences
- GC-MS
- GC-FID
- Fourier Transform IR spectrophotometer.
- Spectrofluorometer
- Bomb calorimeter

Institute of Information and Communication Technology:

- VR Goggles
- Digital Video/Photo camera



	<ul style="list-style-type: none">• Thermal Screening Camera• Green Screen• Fibre Optic splicing machines <p><i>Publications:</i></p> <p>Pereira, D.; Leitao, J.C.C.; Gaspar, P.D.; Fael, C.; Falorca, I.; Khairy, W.; Wahid, N.; El Yousfi, H.; Bouazzama, B.; Siering, J.; Hansmann, H.; Zascierinska, J.; Camilleri, S.; Busuttil, F.; Borg, M.; Mizzi, J.; Micallef, R.; Cutajar, J. Exploring Irrigation and Water Supply Technologies for Smallholder Farmers in the Mediterranean Region. Sustainability 2023, 15, 6875. https://doi.org/10.3390/su15086875</p> <p>Camilleri, S (2022). Chapter 5: Mapping Recreational Boating activity: Case study in the Maltese Archipelago. In Formosa, S. (2022), Pathways to Spatial Cognition - A Multi-Domain Approach - SpatialTrain I (p.101-109). Kite Publisher, Malta. Retrieved from: https://www.researchgate.net/publication/367117564_Pathways_to_Spatial_Cognition_A_Multi-Domain_Approach_-_SpatialTrain</p> <p>Borja, A., Menchaca, I., Garmendia, J.M., Franco, J., Larreta, J., Sagarminaga, Y., Schembri, Y., González, R., Antón, R., Micallef, T. and Camilleri, S., 2021. Big insights from a small country: The added value of integrated assessment in the marine environmental status evaluation of Malta. Frontiers in Marine Science, p.375.</p> <p>Camilleri, S., De Giglio, M., Stecchi, F. et al. Land use and land cover change analysis in predominantly man-made coastal wetlands: towards a methodological framework. Wetlands Ecol Manage 25, 23–43 (2017). https://doi.org/10.1007/s11273-016-9500-4</p> <p>Camilleri, S., Pérez-Hurtado de Mendoza, A. & Gabbianelli, G. Multiple DPSI frameworks for support of integrated research: a case study of the Bahía de Cádiz Nature Park (Spain). J Coast Conserv 19, 677–691 (2015). https://doi.org/10.1007/s11852-014-0347-7</p>
Previous Projects/ Research Experience (international/ EU/ big national or regional projects especially in the areas in which you would like to host fellows) (<i>up to 5</i>)	<p>HORIZON-CL6-2021-GOVERNANCE-01-25 - MODERNAKIS Modernisation of Agriculture through more Efficient and Effective Agricultural Knowledge and Information Systems</p> <p>PRIMA-2020-02A - Improving MEDiterranean irrigation and Water supply for smallholder farmers by providing</p>



	<p>Efficient, low-cost and nature-based Technologies and practices (MED-WET)</p> <p>GF/Admin/48/2020 – ‘Service tender for the establishment and implementation of a long-term monitoring strategy for breeding seabirds in Malta’ – was awarded to BirdLife Malta</p> <p>GF/Admin/40/2020 - EMFF 8.3.1 Marine Environmental Monitoring: Towards effective management of Malta’s marine waters</p> <p>Erasmus Mundus PhD Program in Marine and Coastal Management 2011-2015 leading to research project: <i>Integrated Assessment for Decision and Management Support within the Bahia de Cadiz Nature Park (Spain)</i> http://hdl.handle.net/10498/17962</p> <p>Erasmus Mundus Master Program in Water and Coastal Management 2008-2010 leading to research project: <i>Considerations during the Proposal Stages of a Marine Fisheries Reserve in Conil de la Frontera (Spain)</i> http://rodin.uca.es/xmlui/handle/10498/14743?locale-attribute=es</p>
Thematic areas and list of supervisors who are looking forward to preparing a project proposal with postdoctoral researchers	<p>Dr Sarah Camilleri (link to CV, contact information):</p> <ol style="list-style-type: none"> 1. Water/Marine and Coastal Management 2. Marine Spatial Planning 3. Marine Environmental Policy 4. Geomatics & Spatial analysis for environmental management 5. Earth observation for environmental management
Contact Person/ Position in the Organisation/ Phone/ E-mail	<p><i>Dr Judita Tomaskinova</i> <i>Deputy Director Research & Innovation</i> <i>Phone: +356 2398 7391</i> <i>Email: Judita.Tomaskinova@mcast.edu.mt</i></p>
Deadline for Expressions of Interest from postdoctoral researchers	20 June 2023
Necessary documents	<ul style="list-style-type: none"> ✓ Expression of Interest form ✓ CV ✓ Brief description of the project idea
What we offer	<ul style="list-style-type: none"> ✓ Full-time contract to work on a research project and enjoy advanced training, ✓ Competitive salary –€4,475.48 gross amount, including compulsory deductions under national law, such as employer and employee social security contributions and direct taxes;



	<ul style="list-style-type: none">✓ Mobility (€ 600) and Family allowances (if applicable - € 660);✓ Budget for Research, Training and Networking costs (€ 1 000);✓ Special needs allowance (if applicable).
Requirements	<ul style="list-style-type: none">✓ <i>Experience:</i><ul style="list-style-type: none">- Applicants should be in a possession of a doctoral degree at the call deadline.- At the call deadline, supported researchers must have a maximum of 8 years full-time equivalent experience in research, measured from the date of award of the doctoral degree. Years of experience outside research and career breaks (e.g. due to parental leave) will not count towards the amount of research experience. For nationals or long-term residents of EU Member States or Horizon Europe Associated Countries who wish to reintegrate to pursue their research career in EU Member States or Horizon Europe Associated Countries, years of experience in research in third countries will not be considered in the above maximum.✓ <i>Mobility rule:</i><ul style="list-style-type: none">- European Postdoctoral Fellowships - applicants must not have resided or carried out their main activity (work, studies, etc.) in the country (Malta) of the beneficiary for more than 12 months in the 36 months immediately before the call deadline.
<u>IMPORTANT – apply with us and increase your chances for success¹:</u>	<ul style="list-style-type: none">✓ Not funded applications for European Postdoctoral Fellowships with a host organisation from Malta have the chance to be funded under the ERA Fellowships Call ('Widening Participation and Strengthening the European Research Area' part of the Framework Programme). They will be automatically transferred to the ERA Fellowships Call and will be ranked in one single list according to the scores and evaluation of the Postdoctoral Fellowships call with an additional budget.

¹ The first bullet is only for Widening countries, the second bullet is only for countries and/ or organisations that have a Seal of Excellence programme adopted. Delete accordingly.