

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

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

<b>Organisation Name/ Department</b> <i>(if applicable)</i>	Organisation name: Malta College of Arts, Science and Technology Centre: Applied Research and Innovation Centre (ARIC)	
<b>Website of the organisation</b> <i>(in English)</i>	<a href="https://mcast.edu.mt/applied-research/">https://mcast.edu.mt/applied-research/</a>	
<b>Organisation Short Name</b>	MCAST	
<b>Organisation Type</b>	<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)
<b>Research Fields</b>	<input type="checkbox"/> Chemistry (CHE) <input checked="" type="checkbox"/> Social Sciences and Humanities (SOC) <input type="checkbox"/> Economic Sciences (ECO) <input type="checkbox"/> Information Science and Engineering (ENG) <input type="checkbox"/> Environment and Geosciences (ENV) <input type="checkbox"/> Life Sciences (LIF) <input type="checkbox"/> Mathematics (MAT) <input type="checkbox"/> Physics (PHY)	
<b>Sub-Fields/ Keywords</b> <i>(up to 5)</i>	Education and social justice, equality and equity in education, cooperatives, community development, Lorenzo Milani	
<b>Marie Skłodowska-Curie Action(s) of interest</b>	<input checked="" type="checkbox"/> European Postdoctoral Fellowships <input type="checkbox"/> Global Postdoctoral Fellowships	
<b>Short Description of the Organisation/ Department</b> - strengths and scientific achievements (publications, patents, etc.), important infrastructure <i>(up to 2000 characters with spaces)</i>	The Applied Research and Innovation Centre (ARIC), which is situated in MCAST Resource Centre, is part of the College's strategic plan, giving rise to a dynamic learning space, where knowledge and innovation thrive.	

**Books:**

- Borg, C., Cardona, M. (2008). *Lorenzo Milani. L-Edukazzjoni u l-Ġustizzja Soċjali*. Malta: Media Centre.
- Borg, C., Cardona, M., Caruana, S. (2009). *Letter to a Teacher. Lorenzo Milani's Contribution to Critical Citizenship*. Malta: Agenda Publications.
- Cardona, M. (2010). *L-Edukazzjoni f'Malta f'salib it-toroq*. Malta: Ċentru Fidi u Ġustizzja.
- Busuttil, E., Cardona, M. (Eds) (2010). *Opening Up: A path beyond fear*. Malta: Ċentru Fidi u Ġustizzja.
- Cardona, M. (2010). *You will always have the poor among you. A report about poverty in Malta*. Malta: Ċentru Fidi u Ġustizzja.
- Borg, C., Cardona, M., Caruana, S. (2011). *Carta a una maestra. Contribuciones de Lorenzo Milani a la ciudadanía critica*. Valencia: Edicions CREC, Instituto Paulo Freire.
- Borg, C., Cardona, M., Caruana, S. (2011) *Carta a una mestra. Contribucions de Lorenzo Milani a la ciutadania critica*. Valencia: CREC (Centre de Recursosi Educacio' Continua).
- Borg, C., Cardona, M., Caruana, S. (2013) *Social Class, Language and Power. Letter to a Teacher. Lorenzo Milani and the School of Barbiana*. Rotterdam: Sense Publishers.
- Borg, C., Cardona, M., Caruana, S. (2014) *TOPLUMSAL SINIF DİL VE İKTİDAR "Bir Öğretmene Mektup" Lorenzo Milani ve Barbiana Okulu*. Fatih-Istanbul: Kalkedon.
- Borg, C., Cardona, M., Caruana, S. (2015) *TÁRASADAMI OSZTÁLY, NYELV ÉS HATALOM. „LEVÉL EGY TANÁRNŐNEK”: LORENZO MILANI ÉS A BARBIANAI ISKOLA*. Eger: Eszterházy Károly Főiskola.

**Papers:**

- Cardona, M. (2010). Empowering farmers to react and to act: from an anti golf-course pressure group to a community based farmers' cooperative. In M. Peters (ed), *Low Carbon Communities*. Surrey: Elgar.
- Bonnici, S., Cardona, M. (2010). Il-Patria l-ewwel u qabel kollox. L-Ittra ta' Don Lorenzo Milani lill-Kappillani Militari tat-Toskana. (The Fatherland first and foremost. Don Lorenzo Milani's letter to the military chaplains of Tuscany). In C. Borg (Ed),



*Lorenzo Milani Bejn Ilbierah u Llum.* Malta: Horizons Publications.

- Cardona, M. (2012). Bare feet in the wet soil. In C. Borg, R. Vella (Eds), *Shooting Society: Documenting Contemporary Life in Malta*. Malta: Midsea Books.
- Cardona, M. (2017). Learning in, from and for co-operative life in Rural Malta. Two case studies. In *Journal of co-operative studies 50:1, Summer 2017*, pp. 5-16.

*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 Institute of Information and Communication Technology:*

- VR Goggles
- Digital Video/Photo camera
- Thermal Screening Camera
- Green Screen
- Fibre Optic splicing machines



<p><b>Previous Projects/ Research Experience</b> (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>	<p>modernAKIS: Modernisation of Agriculture through more efficient and effective agricultural knowledge and information systems. [Horizon Europe, Cluster 6, (2022-2029)].</p> <p>MICIE: Mediterranean Island Cleantech Innovation Ecosystem. [Horizon Europe, EIE CONNECT, No. 101070800 (2022-2023)].</p> <p>Young Innovators (YIMALTA) [EIT, Climate-KIC, No. 210291 (2022)].</p> <p>HEIGHT: Higher Education Innovation Growth and Training: heightening sustainable innovation in our HEIs and societies. [EIT, Climate-KIC, No. 210291 (2021)].</p> <p>ISADD: Development of an Integrated Simulation and Assessment in Donning and Doffing for healthcare professionals [Research Excellence Programme (2021-2022)].</p>
<p><b>Thematic areas and list of supervisors who are looking forward to preparing a project proposal with postdoctoral researchers</b></p>	<p><b>Dr Mario Cardona</b> (link to CV, contact information):</p> <ol style="list-style-type: none"> <li>1. Education and Social Justice</li> <li>2. Equitable access to education</li> <li>3. Community-based cooperatives</li> <li>4. Community Development</li> <li>5. Radical educators (Lorenzo Milani, Manwel Dimech)</li> </ol>
<p><b>Contact Person/ Position in the Organisation/ Phone/ E-mail</b></p>	<p><i>Dr Judita Tomaskinova</i>  <i>Deputy Director Research &amp; Innovation</i>  <i>Phone: +356 2398 7391</i>  <i>Email: Judita.Tomaskinova@mcast.edu.mt</i></p>
<p><b>Deadline for Expressions of Interest from postdoctoral researchers</b></p>	<p>20 June 2023</p>
<p><b>Necessary documents</b></p>	<ul style="list-style-type: none"> <li>✓ Expression of Interest form</li> <li>✓ CV</li> <li>✓ Brief description of the project idea</li> </ul>
<p><b>What we offer</b></p>	<ul style="list-style-type: none"> <li>✓ Full-time contract to work on a research project and enjoy advanced training,</li> <li>✓ Competitive salary –€4,475.48 gross amount, including compulsory deductions under national law, such as employer and employee social security contributions and direct taxes;</li> <li>✓ Mobility (€ 600) and Family allowances (if applicable - € 660);</li> <li>✓ Budget for Research, Training and Networking costs (€ 1 000);</li> <li>✓ Special needs allowance (if applicable).</li> </ul>



<p><b>Requirements</b></p>	<p>✓ <i>Experience:</i></p> <ul style="list-style-type: none"><li>- Applicants should be in a possession of a doctoral degree at the call deadline.</li><li>- 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.</li></ul> <p>✓ <i>Mobility rule:</i></p> <ul style="list-style-type: none"><li>- European Postdoctoral Fellowships - applicants must not have resided or carried out their main activity (work, studies, etc.) in the country of the beneficiary for more than 12 months in the 36 months immediately before the call deadline.</li></ul>
<p><b><u>IMPORTANT – apply with us and increase your chances for success<sup>1</sup>:</u></b></p>	<p>✓ Not funded applications for European Postdoctoral Fellowships with a host organisation from Malta have the chance to be funded under the <b>ERA Fellowships Call</b> (‘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.</p>

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<sup>1</sup> 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.