



**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 type="checkbox"/> Environment and Geosciences (ENV) <input checked="" type="checkbox"/> Life Sciences (LIF) <input type="checkbox"/> Mathematics (MAT) <input type="checkbox"/> Physics (PHY)	
Sub-Fields/ Keywords <i>(up to 5)</i>	Medication wastage, medication adherence, lean management, behavioural determinants of medication wastage	
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 (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.	



Key Publications:

- Grimes T, Marcilly R, **Bonnici West L**, Cordina M. Medication-Related Outcomes and Health Equity: Evidence for Pharmaceutical Care. *Pharmacy* 2023, 11, 60. <https://doi.org/10.3390/pharmacy11020060>
- Vella V, **West LM**. Analysis of Disposed Unused Medications at a Village Community Pharmacy. *Pharmacy*. 2019;7:45.
- **West LM**, Stewart D, Cordina M. Mixed-methods approach to determine adherence, knowledge and behavioral determinants associated with medication wastage. *Research in Social and Administrative Pharmacy*. 2020 May;16(5):654-662. doi: 10.1016/j.sapharm.2019.08.003. Epub 2019 Aug 1. PMID: 31422017.
- **West LM**, Cordina M. Medication and Medication Wastage: Short-Term and Long-Term Effects of an Educational Intervention Among School Children. *Global Pediatric Health*. 2019. doi: <https://doi.org/10.1177/2333794X19848670>.
- **West LM**, Brincat A, Mercieca M, Fsadni D, Rapa I, Cordina M. Applying lean methodology to improve parenteral chemotherapy and monoclonal antibodies documentation processes based on the Normalization Process Theory. *European Journal of Hospital Pharmacy* 2018; 25:32-37.
- **West LM**, Diack L, Cordina M, Stewart D. A systematic review of the literature on 'medication wastage': causative factors and effect of interventions. *International Journal of Clinical Pharmacy* 2014; 36(5): 873-881.

Key workshops:

- **West LM**. Medication Waste: Implications, Challenges and a Direction for the future. QATAR UNIVERSITY HEALTH CONTINUING PROFESSIONAL DEVELOPMENT ACTIVITY – ACTIVITY HELD ONLINE: QATAR, 2021.
- **West LM**. Conducted a seminar and workshop which was organised by Arthritis and Rheumatism Association Malta (ARAM) as part of the European Week for Waste Reduction (EWWR) which is organised annually by WasteServ. Through the latter initiative ARAM placed first in the 'Associations' Category and also a finalist in the 'Most Innovative Hazardous Waste Initiative' Category.
- Bekker CL, **West LM**, Bouvy ML. What can a clinical pharmacist do to reduce medication waste? WORKSHOP HELD AT EUROPEAN SOCIETY OF



CLINICAL PHARMACISTS CONFERENCE –
NORWAY, 2016.

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>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>	<ul style="list-style-type: none"> - Awarded the REACH HIGH Scholars Programme post-doctoral grant, part-financed by the European Union, Operational Programme II – Cohesion Policy 2014 – 2020 'Investing in human capital to create more opportunities and promote the well-being of society' – European Social Fund, to pursue post-doctoral, 2015. <ul style="list-style-type: none"> • Conducting a series of mixed-methods research to implement interventions to reduce medication wastage and wastage in pharmacy processes. • Educating the general public on how to prevent medication wastage and how to adequately store and dispose of medications. - <i>Development of an Integrated Simulation and Assessment in Donning and Doffing for healthcare professionals (ISADD)</i>: Part of the ISADD team, a research project coordinated by MCAST, and financed by the Malta Council for Science & Technology, for and on behalf of the Foundation for Science and Technology, through the Research Excellence Programme, 2021. - <i>Modernisation of Agriculture through more efficient and effective agricultural knowledge and information systems (modernAKIS)</i>: Part of the modernAKIS MCAST team, an R&I project coordinated by the Austrian Chamber of Agriculture (LKO), awarded Horizon Europe funding through the following call: HORIZON-CL6-2021-GOVERNANCE-01-25—Improving national AKIS organization in a co-creative process across the EU Specific conditions, 2022. - <i>Transforming advanced water skilling through the creation of a network of extended-reality water emulative centres (WATERLINE)</i>: Part of the WATERLINE MCAST team, a CSA project coordinated by MCAST, awarded Horizon Europe funding through the following call: HORIZON-WIDERA-2021-ACCESS-05—European Excellence Initiative (EEI): Strengthening capacity for excellence in higher education institutions and surrounding ecosystems, 2022. - <i>EU4DUAL. The European Dual Studies University</i>: Part of the EU4DUAL team (Co-Lead of the Research Work Package), an Alliance, awarded co-funding by the Erasmus+ programme of the European Union, 2023.
<p>Thematic areas and list of supervisors who are looking</p>	<p>Dr Lorna Bonnici West (link to CV, contact information)</p> <ol style="list-style-type: none"> 1. Medication wastage



forward to preparing a project proposal with postdoctoral researchers	2. Medication adherence 3. Behavioural determinants to medication wastage
Contact Person/ Position in the Organisation/ Phone/ E-mail	<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>
Deadline for Expressions of Interest from postdoctoral researchers	20 June 2023
Necessary documents	✓ Expression of Interest form ✓ CV ✓ Brief description of the project idea
What we offer	✓ 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; ✓ Mobility (€ 600) and Family allowances (if applicable - € 660); ✓ Budget for Research, Training and Networking costs (€ 1 000); ✓ Special needs allowance (if applicable).
Requirements	✓ <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.



IMPORTANT – apply with us and increase your chances for success¹:

✓ 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.