



MCAST

Research Assistant Part-Time Job Description

Job Summary: This role supports the design, development and implementation of funded research projects as required by the MCAST Institute of Engineering and Transport. The researcher assistant will work closely with internal and external stakeholders to develop efficient and effective products and solutions as required by the Principal Investigator and IET Management.

DUTIES AND RESPONSABILITIES

- Contribute to the development of research and innovation implemented within the Institute of Engineering and Transport and participate accordingly in funded research projects within the Department of Electrical and Electronics Engineering.
- Performs a variety of technical duties supporting the realization of innovative and research-based deliverables at MCAST.
- Technically support multidisciplinary projects in areas such as computational imaging, machine vision, designing and maintaining bespoke electronic control systems and other electronic and robotic fields.
- Hardware and software development preferably related to electrical engineering and proficiency in C/C++ and python.
- Apply theoretical expertise and innovation to create or apply new technology.
- Support in the compilation of technical and academic report, including research publications.
- Consult with users, management, MCAST staff, technicians, and external stakeholders to determine computing needs and system requirements.
- Provide guidance and expert advice to management or other groups on technical, systems, or process-related topics.
- Plans, coordinates, executes and supports research and innovation project(s) activities in line with Grant Agreements and/or MCAST commitments.
- To build in the local context, new networks, engage with stakeholders and ensure that stakeholders participate fully in the different projects' activities.
- Develops contacts to acquire knowledge and understanding of the research project(s).
- Co-ordinate day-to-day work to support concurrent research projects.
- Keep records of deliverables, finances and other tasks carried out and participate in project management under supervision by the IET management.
- Co-ordinates and assists in the dissemination process, under the guidance of IET management.
- Facilitates collaboration by liaising with other research groups at MCAST and external entities including industry partners and international consortia.
- Work in liaison with relevant MCAST units and departments, as necessary.
- Develops and maintains a good working relationship with cross-campus departments at MCAST.
- Ensures compliance with Health and Safety procedures.



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- Perform any other project related task as instructed by the Director of IET and Director of Research and Innovation.
- The list is not exhaustive, and management may change or add tasks if and when required and according to the exigencies of MCAST and its subsidiaries.

PREFERRED OR ASSET-CONSIDERED REQUIREMENTS

- Related academic/research execution experience and/or work experience (additional to requirements) would be considered an asset.
- Proposal writing experience would also be considered an asset.
- Preference will be given to candidates showing research-based initiatives with published works.

QUALIFICATION REQUIREMENTS

- MQF Level 6 qualification in engineering or a closely related field preferably with a specialization in electrical and control engineering or computational imaging.
- MQF Level 7 qualification in engineering or a closely related field preferably with a specialization in electrical and control engineering or computational imaging.