



Advert

The MCAST Energy within the Institute of Engineering and Transport is looking for highly motivated and creative Research Academic(s) in the fields of Electrical and Control Engineering, Electrical Power and Energy Systems, Integration of Photovoltaics (PVs), Electric Vehicles(EVs) and Energy and Environmental Economics, who aspire to jointly and multidisciplinary address the range of research themes below with Mediterranean or Maltese attributes:

1. Focused PV integration technical solutions: Flexible technologies such as energy storage
2. Focused PV integration technical solutions: Smart-grid structures and tools including micro-grids
3. Future Electricity Markets with PVs: European regulatory framework and market design
4. Future Electricity Markets with PVs: Smart grids and ancillary services, and PV markets, forecasts and trends
5. Energy-Water Nexus, focus on PVs: Water to balance energy
6. Fusion of emerging PV technology development: Upscaling of emerging technology and On-site testing of devices
7. Driving habits and islands drive cycles
8. Electric vehicles integration considering distributed energy sources
9. Multi-modal full electric mobility
10. Market strategies and tourism in electric mobility
11. Examining Transport Energy Pathways in the Mediterranean

We offer a contract of service per project up to 10 hours per week with a corresponding as per MCAST Academic Collective Agreement. Selected candidates will be placed on a reserve list during the duration of the projects.

The Research Academic(s) will work in a truly international and with the world-leading group of researchers which will provide them with an excellent basis and a strong network for a future career in the field of Electrical Power and Energy Systems and Energy and Environmental Economics, in academia and research centres, the industry as well as governance.

Research Academic(s) will also enjoy some of the best mobility, training activities and resources within The University of Manchester in the UK, The French Alternative Energies and Atomic Energy Commission (CEA) in France, National Renewable Energy Centre (CENER) in Spain, The AIT Austrian Institute of Technology and ANEL Nicosia Development Agency in Cyprus as well as other partner institutions in exchange visits, internships, mentoring, schools, courses, lectures, conferences and meetings.

These positions are being funded by the European Commission H2020 TWINNING NEEMO (Networking for Excellence in Electric Mobility Operations) project under grant 857484 and JUMP2Excel (Joint Universal activities for Mediterranean PV integration Excellence) project under grant 810809.



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The Malta College of Arts, Science and Technology (MCAST), established in 2001, is the country's leading vocational education and training institution. Through the three Colleges, namely Foundation, Technical and University Colleges and six Institutes in Malta and the Gozo Campus, MCAST offers 180 full-time and over 300 part-time vocational courses ranging from certificates to Master degrees (MQF Level 1 to Level 7).

The six MCAST Institutes namely the Institute of Applied Sciences, the Institute for the Creative Arts, the Institute of Engineering and Transport, the Institute of Business Management and Commerce, the Institute of Community Services, the Institute of Information and Communication Technology and the Gozo Campus provide all the technical and professional expertise towards the delivery of the programmes at MCAST and maintain the aim of driving forward all the areas of study under their respective responsibility. This corporate structure enables each College to create focused strategies that address the specific needs of students at each level while maintaining a healthy dialogue with all interested stakeholders to provide the best programmes for the needs of the local economy and society.

MCAST's relationship with industry stimulates the College's success – its programmes are flexible, relevant and responsive to the aspirations of the students and to the needs of industries that are constantly evolving to meet the challenges of a changing global economy. The College supports small and medium-sized enterprises through a multidisciplinary approach that encompasses work-based learning through the Apprenticeships Programme, the various entrepreneurship initiatives and through MG2i (MCAST commercial arm) services whereby it provides training courses tailor-made to their needs. The College is focusing on increasing the portfolio of MG2i by developing new programmes in Life Long Learning, accrediting new programmes at different levels including Masters and introducing more professional development programmes. It is working on the internationalization of MG2i through the Training and Professional Development Programmes and joint-venture opportunities in different vocational areas.

www.mcast.edu.mt

The MCAST Energy Research Group (MCAST Energy) specialises in global and regional solutions by innovative devices in emerging technologies, systems-level integration to policy engagement for a better community and social benefit. The breath of energy research at MCAST Energy includes Device Fabrication and on-site Testing, Energy Economics and Policy, Efficient Buildings, Power Systems, Renewables and Transportation. The group specialises in applied research techniques including but not limited to optimisation, decision making and life cycle analysis. MCAST Energy is part of the Institute of Engineering and Transport.

The Maltese Islands are positively mythic Megaliths, medieval dungeons and Calypso's Cave. The narrow meandering streets of their towns and villages lead to the main square, which is invariably dominated by the huge baroque church. As the countryside is dotted with medieval towers, wayside chapels and the oldest known human structures in the world, the Islands have rightly been described as an open-air museum. The Maltese archipelago lies virtually at the centre of the Mediterranean, 93 km south of Sicily and 288 km north of Africa. The archipelago consists of three islands: Malta, Gozo and Comino with a total population of over 400,000 inhabitants occupying an area of 316 square kilometres. Malta is the largest island and the cultural, commercial and administrative centre. Gozo is the second-largest island and is more rural, characterised by fishing, tourism, crafts and agriculture. Comino, the smallest of the trio, has one hotel and is largely uninhabited. With superbly sunny weather, attractive beaches, a thriving nightlife and 7,000 years of intriguing history, there is a great deal to see and do.

www.visitmalta.com



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HOW TO APPLY

Vacancies will be filled if, and when openings become available. Successful candidates will be called to fill existing vacancies in accordance with the order of merit. Successful candidates are placed on a reserve list during the duration of the projects.

Interested candidates are invited to apply at <http://jobs.mcast.edu.mt> and submit in English:

- a covering letter,
- up to 1,000 words research plan highlighting the interrelation of the research theme with Maltese or Regional attributes,
- an updated Curriculum Vitae on the Europass CV Template <https://europass.cedefop.europa.eu/>,
- copies of all academic and professional certificates,
- copies of all full paper publications in journals,
- recognition statement/receipt of an application by Malta Qualifications Recognition Information Centre (MQRIC) for all certificates by applying to <https://ncfhe.gov.mt/en/services/Pages/All%20Services/mqric.aspx> (applicable to all qualifications awarded by foreign or local institutions excluding the University of Malta and the Malta College of Arts, Science and Technology (MCAST))
- two referee contacts, and
- a copy of a full passport (applicable to non-EU candidates).

Additional submission fields are available in the certificates section.

Incomplete applications will not be considered.

Applications are to be received by the closing date on this advert. Please refer any enquiries to energy@mcast.edu.mt

REQUIREMENTS

For Research Academic(s)

- Currently employed as Academic in the subject area of Engineering preferably with a specialisation in Electrical and Control Engineering.
- At least 5 years of industrial experience preferably in energy and power systems.
- Have project management experience and/or qualifications.
- Hardware and software development preferably related to electrical engineering and proficiency in C/C++ and python.

Other preferred or asset-considered requirements

- Related academic/research experience and/or work experience (additional to requirements) would be considered an asset.
- Preference will be given to candidates showing research-based initiatives within their career profile.

Research Academic(s): Rate as per MCAST Academics Collective Agreement

Type of Contract: Definite contract of service on a pro-rata basis