



L-Università
ta' Malta

Human Resources
Management &
Development Office

University of Malta
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Call for Applications

Post/s of Full-Time Research Support Officer I or II

SATMET – MCST Fusion R&I Technology Development Programme

Situation Awareness and Traffic Management for Engineless Taxiing

And Any Other Projects Undertaken by the Institute for Aerospace Technologies

1. Applications are invited for a Research Support Officer to work on a full-time basis on “Situation Awareness and Traffic Management for Engineless Taxiing” (SATMET), a project financed by the Malta Council for Science and Technology through the Fusion R&I Technology Development Programme. The selected applicant will develop optimisation algorithms to increase the efficiency of engineless taxi operations for the case where a fleet of automated tow trucks is used to tow aircraft all the way from the gate to the runway and vice-versa. This work will be carried out in collaboration with project partner HandsOn Systems Ltd.
2. Applicants must be in possession of a first degree in one of the following areas: Electrical & Electronic Engineering, Aerospace Engineering, Computer Science, Information and Communication Technology (ICT), or related disciplines. Candidates in possession of a Master’s degree in one of the above-mentioned areas will be preferred.

The University of Malta is an Equal Opportunity employer.

3. The full-time post is for an initial period of 12 months, which may be extended to a further 12 months, and carries the following initial annual remuneration:
Research Support Officer I - €20,800 for candidates in possession of a first degree;
Research Support Officer II - €24,960 for candidates in possession of a Master’s degree.
4. Candidates must submit their letter of application, a copy of their curriculum vitae and a copy of their certificates by e-mail to projects.hrmd@um.edu.mt by not later than **Monday, 29th January 2018**.

Late applications will not be considered.

5. Further information may be obtained from the Office for Human Resources Management & Development or from website: <http://www.um.edu.mt/hrmd/vacancies> or by sending an email to iat@um.edu.mt.

Office of the University,
Msida, 15th January 2018



The Malta Council for
Science & Technology

Call for Applications
Post/s of Full-Time Research Support Officer I or II
Fusion R&I Technology Development Programme

SATMET – “Situation Awareness and Traffic Management for Engineless Taxiing”
And Any Other Projects Undertaken by the Institute of Aerospace Technologies

Further Information

1. The Research Support Officer will be responsible for the execution of a number of tasks related to SATMET, a project financed by the Malta Council for Science and Technology through the Fusion R&I Technology Development Programme, in which the Institute of Aerospace Technologies is the lead partner. One of the objectives of this project is to address traffic management and optimise engineless taxi operations for the case where a fleet of automated (self-driving) tow trucks is used to tow aircraft all the way to and from the gate and the runway. Novel algorithms will be developed to allocate tow trucks to departing or landing aircraft and to determine the best route to be followed by each aircraft-tug pair in order to minimise energy costs and sequence aircraft to prevent conflicts. This system will serve as a decision support tool for air traffic controllers. The Research Support Officer may also be required to work on other projects undertaken by the Institute of Aerospace Technologies.
2. The main duties and responsibilities of the appointee will consist of carrying out Research and Project Management Assistant duties including:
 - a. working closely with the project partner and MCST throughout the project;
 - b. developing algorithms using programming tools such as MATLAB and Simulink and C++
 - c. producing project deliverables within the time frames specified in the project description;
 - d. abiding by the conditions imposed by the project;
 - e. writing scientific conference or journal papers related to the project, and presenting them at relevant conferences;
 - f. assisting in dissemination activities related to the project;
 - g. performing any other project-related tasks as instructed by the project coordinator.
3. The appointees are expected to work at such places and during such hours as may be determined by the University authorities.
4. The selection procedure will involve:
 - a. scrutiny of qualifications and experience claimed and supported by testimonials and/or certificates (copies to be included with the application); and
 - b. an interview and / or extended interview.

5. The post is for an initial period of 12 months, which will be subject to a probationary period and to the provisions of the Statutes, Regulations and Bye-Laws of the University of Malta which are now or which may hereafter be in force.

Office of the University,
Msida, 15th January 2018