



**L-Università  
ta' Malta**

**Human Resources  
Management &  
Development Office**

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[www.um.edu.mt](http://www.um.edu.mt)

## **Call for Applications**

### **Post of Aerosol Systems Engineer/ Systems Scientist**

Giordan lighthouse research facility at University Gozo Campus,  
Department of Geosciences – Faculty of Science

The Department of Geosciences requires an Aerosol Systems Engineer / scientist for the Giordan lighthouse research facility, based at the University Gozo Campus. This systems engineer/ scientist will be required to undertake independent research and data evaluation from the Giordan lighthouse Climate and Pollution monitoring station which is part of the World Meteorological Organisation Global Atmosphere Watch system reporting back to WMO, Geneva.

The work involves measurement of atmospheric concentrations of aerosols as well as associated meteorology and modelling studies using the newly installed instrumentation.

The ideal candidate should be a science, engineering or IT graduate willing to undergo training in the Aerosol sciences abroad:

- Holding a postgraduate degree in aerosol science, atmospheric chemistry, engineering or IT or equivalent.
- Have in-depth knowledge of IT hardware and software necessary for instrument control and data analysis using a variety of statistical techniques;
- Have the ability to set up and maintain a web site;
- Be able to carry out any reasonable mechanical, electrical and electronic engineering tasks in a remote location;
- Be able to carry out electronic troubleshooting on instruments being used;
- Have a sound knowledge of Physics and Chemistry and reasonable ability in Mathematics.;
- Be familiar with photochemistry;
- Have high proficiency in the English language;
- Be willing to learn new techniques used in Atmospheric Chemistry and Physics;
- Have knowledge of, or experience in, Meteorology;
- Possess a driving licence and own vehicle for everyday use.
- Be willing to reside on Gozo and undergo at least three months training in Leipzig, Germany.

The post carries an annual salary of €23,194 rising by annual increments of €531 up to €26,380. On completion of five years service in this grade, the appointee will, on satisfactory performance, be entitled to move on to the next salary band with annual increments of €596 up to a maximum of €28,460.

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Applicants should submit their letter of application by e-mail to [recruitment.hrmd@um.edu.mt](mailto:recruitment.hrmd@um.edu.mt) together with their *curriculum vitae* and certificates.

Applications should be received by Wednesday, 20<sup>th</sup> December 2017.

**Late applications will not be considered.**

Further information may be obtained from the website: <http://www.um.edu.mt/hrmd/vacancies>.

Office of the University  
Msida, 27<sup>th</sup> November 2017

081\_systems engineer/systems scientist (aerosol)\_2017

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#### **Further Information**

The range of equipment at the Giordan lighthouse/ UGC facility includes the following: Ozone (LUBW) primary standard, Thermoelectron Ozone analyser, Aero Laser CO analyser, Thermoelectron SO<sub>2</sub> and NO<sub>x</sub> analysers, Tracerlab Radon-222 detector, Custom built (Leibniz institute, Germany) Wide range aerosol spectrometer to GAW standards covering 10 nm to 10 microns in 72 channels plus Multi Angle Absorption Photometer. Two (Leckel) low volume samplers, Five anemometers including four cup and vane and one ultrasonic 50Hz model. Several Meteorological sensors and a new IT facility at the Xewkija University Gozo Campus. An Aethelometer and Picarro greenhouse gases analyser and Cimel sunphotometer have also been installed under the Vamos Seguro project.

The following is a list of tasks that the appointee may be required to perform at the University of Malta:

- a. Conduct independent research into aerosols and maintain a database of data from Giordan lighthouse. For the latter a knowledge of IT is essential.
- b. Produce deliverables, reports and artifacts within the time frames as specified in the project description;
- c. Keep detailed progress reports and abide to all the conditions imposed by the project;
- d. establish and nurture international links and consolidate collaboration between the various stakeholders and scientific institutions worldwide;
- e. Prepare technical and scientific papers;
- f. Assist in the dissemination process;
- g. Travel and attend international meetings/conferences as the need arises;
- h. Spend considerable periods of time living outside the island for training and research purposes if necessary;
- i. Travel locally as necessary.
- j. Perform any other project related task as instructed by the project leader.

The appointee is expected to work:

- a. on a full-time basis, and will not be allowed to engage in any other gainful employment without the permission of the Council; and
- b. at such places and during such hours as may be determined by the University authorities.
- c. The chosen candidates would normally be expected to reside on Gozo, for ease of accessibility to the instruments/facilities in question.

The selection process will follow the document “Guidelines for Members of Selection Boards in the Recruitment of Administrative, Technical and Industrial Staff”

(<http://www.um.edu.mt/hrmd/services/recruitment>).

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In accordance with the guidelines, members of the Selection Board will establish the following selection criteria for the selection process:

- i) Relevant academic qualifications
- ii) Relevant work experience
- iii) Aptitude and suitability; and
- iv) Performance in interview

The appointment will be subject to a probationary period of one year, and to the provisions of the Statutes, Regulations and Bye-Laws of the University which are now or which may hereafter be in force.

Office of the University  
Msida, 27<sup>th</sup> November 2017

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