



L-Università  
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## Call for Quotations for the Services of Professional Consultancy in the field of Design, Manufacture, Installation and Testing of Photocatalytic Surfaces.

'*Micro WAstewaTer Treatment System using Photocatalytic Surfaces*' (Micro WatTS), a University of Malta lead project co-financed by *INTERREG V. A. Italia-Malta*, shall develop a micro greywater solar water treatment system, a step in the right direction when it comes to tackling the problem of water shortage that Malta and Sicily face.

The first step of the three-year project (2018-2021) is the identification of a number of surfaces exhibiting photocatalytic potential. Test samples shall be produced, characterised and their photocatalytic effectiveness tested periodically in order to assess their decontamination capability. The best performing materials shall be installed in prototypes and field-tested by carrying out bacteriological and chemical tests on the treated water.

Short-term distinctive aspects of the project include:

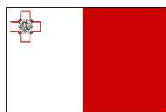
- Cross-border collaboration at a high level of research leading to the development of innovative eco-products / services,
- Transfer of technology to SMEs,
- Cross-border mobility of workers and researchers,
- Adoption by SMEs of the innovative technology developed,
- Financial and non-financial assistance to SMEs.

In the long-term the project is expected to:

- Generate green jobs,
- Have an impact on the carbon and water footprint and
- Lead to a better use of natural resources.

The project has now reached a stage where photocatalytic surfaces have been produced successfully on a small scale. The project now requires the services of a highly experienced person that will drive the process leading to the upscaling of the production system, enabling it to coat surfaces on a larger scale. The provider of the service will be required to:

1. Consult with the Micro WatTS team so as to establish the requirements of the proposed production system,
2. Prepare a detailed design of the production plant,
3. Carry out any related machining/manufacturing, installation and testing of the up-scaled manufacturing plant,
4. Verify the functionality and reliability of the production plant through the preparation of photocatalytic test samples,
5. Test the integrity of the photocatalytic test surfaces produced.



INTERREG V-A Italy-Malta Programme  
Project part financed by the European Union  
European Regional Development Fund (ERDF)  
Co-financing rate: 85% EU Funds; 15% National Funds





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The candidate will be required to have a minimum of ten (10) years' experience in:

1. Engineering design,
2. Conventional machining processes such as milling, turning and grinding,
3. Heat treatment, anodising and physical vapour deposition processes,
4. Materials' testing techniques.

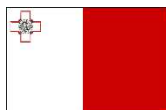
Applicants must possess excellent communication skills in written and spoken English. The position requires a person who is organised and can work both on his or her own initiative and in a team.

Applicants are required to submit a CV, highlighting the above-mentioned criteria.

It is estimated that the expert would be required to complete tasks assigned over a 5 month period and/ or until tasks are completed as specified by the project coordinator.

Applicants are requested to quote an hourly rate and **must be excluding of applicable VAT rates** (there is a limited budget for this expense).

**Deadline: Saturday 9 November 2019.**



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