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

MALTAHIP – R&I National Project
Development of a low-wearing novel metal on metal hip joint prosthesis for a longer lifespan

Project R&I-2015-023-T financed by the Malta Council for Science & Technology through the National Research & Innovation Programme 2016

And any other projects undertaken by the
Department of Metallurgy and Materials Engineering, Faculty of Engineering
Department of Anatomy, Faculty of Medicine and Surgery
Department of Mechanical Engineering, Faculty of Engineering

1. Applications are invited for a Research Support Officer to work on the Development of a low-wearing novel metal on metal hip joint prosthesis for a longer lifespan (MALTAHIP), a project financed by the Malta Council for Science & Technology through the National Research & Innovation Programme 2016 (contract number R&I-2015-023-T). The project is looking into the development and testing of a novel hip joint replacement.

This work will be carried out in collaboration with the project partner MCL Components Ltd. Further information about MALTAHIP may be obtained from Dr Pierre Schembri Wismayer MD, Dr Ing. Joseph Buhagiar and Dr Ing. Pierluigi Mollicone via email on pierre.schembri-wismayer@um.edu.mt, joseph.p.buhagiar@um.edu.mt and pierluigi.mollicone@um.edu.mt respectively. The Research Support Officer may also be required to work on any other projects undertaken by the Department of Metallurgy and Materials Engineering, Department of Anatomy and Department of Mechanical Engineering.

2. Applicants must be in possession of at least a B.Eng.(Hons) in Mechanical Engineering from the University of Malta, or an equivalent degree from any other university. Those in possession of a Masters degree in biomedical engineering, biomechanics or biomaterials are also encouraged to apply. The candidate should provide evidence of proficiency in the following areas: product design using three-dimensional computer aided modelling with an industry-standard software package; advanced stress analysis using classical and numerical mechanics methods such as finite element analysis (with an industry-standard software package). The applicant must also show proof that he/she has an in depth understanding of the anatomy of the hip. Very good knowledge of English is a prerequisite. Any direct experience in research project work, design, modelling and simulation related or not related to biomechanics will be considered an asset.

3. In addition, the appointee shall be committed to enrol for a Ph.D. degree in an area related to the project. The candidate should register with the Faculty of Engineering of the University of Malta and will have Dr Ing. Joseph Buhagiar as a supervisor and Dr Pierre Schembri Wismayer MD and Dr Ing. Pierluigi Mollicone as co-supervisors.
4. The appointment is for an initial period of one year with the possibility of extending for another two years. It carries an initial annual salary of: EUR20,800 for applicants holding a first degree; and an initial annual salary of EUR24,960 for applicants with a Master’s Degree.

5. Candidates should submit their letter of application, a copy of their curriculum vitae and copies of their certificates. Applications must be sent by e-mail to projects.hrmd@um.edu.mt and should be received by not later than **noon of Monday, 25th July 2016.**

   **Late applications will not be considered.**

6. Further information may be obtained from the Office for the Human Resources Management and Development, Room 215, Administration Building or from the website: http://www.um.edu.mt/hrmd/vacancies.

   Office of the University,
   Msida, 11th July 2016
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Further Information

1. The MALTAHIP project, which runs for 3 years, is a research project that is part-funded by the Malta Council for Science & Technology through the National Research & Innovation Programme 2016 (R&I-2015-023-T). The project is looking into the development and testing of a novel hip joint replacement. This work will be carried out in collaboration with the project partner MCL Components Ltd. Further information about MALTAHIP may be obtained from Dr Pierre Schembri Wismayer MD, Dr Ing. Joseph Buhagiar and Dr Ing. Pierluigi Mollicone via email on pierre.schembri-wismayer@um.edu.mt, joseph.p.buhagiar@um.edu.mt and pierluigi.mollicone@um.edu.mt respectively. The Research Support Officer may also be required to work on any other projects undertaken by the Department of Metallurgy and Materials Engineering, Department of Anatomy and Department of Mechanical Engineering.

2. The main duties and responsibilities of the appointee will consist of carrying out Research at PhD level and Project Management Assistant duties under the supervision of the project co-ordinators. The work will include:
   a. researching and reviewing of texts (reports, papers, books, patents and other academic publications) relevant to the research topic;
   b. undertaking three dimensional computer modelling, stress analysis using classical methods and simulations;
   c. development and testing of a novel hip joint replacement;
   d. preparation of periodic project and scientific reporting and abide to all the conditions imposed by the project;
   e. day-to-day project planning and management;
   f. support in the overall running of the project;
   g. enrol for a Ph.D. degree in an area related to the project by registering with the Faculty of Engineering of the University of Malta and having Dr Ing. Joseph Buhagiar as a supervisor and Dr Pierre Schembri Wismayer MD and Dr Ing. Pierluigi Mollicone as co-supervisors;
   h. representing the University of Malta and MALTAHIP externally, both locally and abroad;
   i. creating three and two dimensional drawings and assisting in the fabrication of prototypes;
j. co-ordination of work with other members taking part in the project and project collaborators;
k. analysis of research findings;
l. preparing and/or writing of reports, presentations, posters, scientific papers, books, patents and other academic publications relevant to the research topic;
m. attending meetings related to the project and to present work carried out in this project at such meetings;
n. the candidate is expected to sign a non-disclosure agreement; and
o. Organisation of dissemination activities relating to the project;

3. The appointee is 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 an initial period of one year and 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, 11th July 2016