



## Call for Applications

### Post in Ecological Modelling with the Physical Oceanography Unit of the IOI-Malta Operational Centre

1. The Physical Oceanography Unit of the IOI-Malta Operational Centre (IOI-MOC) is seeking to appoint a qualified academic to develop a capacity in the use of computer models and systems analysis for the description of marine ecosystems and for the control of sea pollution and management of marine resources. This branch of research is new for the Maltese Islands and combines numerical modelling, systems analysis, thermodynamics and computer techniques with marine ecology and management of the marine environment and its natural resources. The selected appointee will be required to engage in the development of ecological models with direct applications in the coastal and offshore waters of the Maltese Islands. The appointee will moreover participate in the teaching, research and other activities of the Physical Oceanography Unit, and as may be required by the University.
2. Candidates should at least possess a Masters degree in Biology, Geophysical sciences or a related discipline. The ideal candidates should also possess qualifications/skills in related subjects such as in data management, numerical modelling, oceanography and the marine sciences to ensure a solid base for the development of ecological modelling techniques. Preference will be given to candidates who possess, or who are about to obtain a Ph.D. in any of the areas of specialisation mentioned above. Prior experience in the requested fields of activity and in European research project implementation will be considered an asset.
3. The appointment may be made at grade of Lecturer, if there are candidates who satisfy the statutory requirements for appointment at this grade. However appointment at Assistant Lecturer grade may also be offered on the condition that the appointee completes a Ph.D. or D.Phil degree within a stipulated period.

The salaries attached to the respective grades are:

Lecturer	€21,449 rising by annual increments of €641 up to €23,371
Assistant Lecturer With Masters	€20,044 rising by annual increments of €596 up to €21,833

4. Candidates should submit their letter of application, six copies of their *curriculum vitae*, one set of copies of their certificates and names and addresses of three referees to:

The Director for Human Resources Management and Development  
Room 217, Administration Building  
University of Malta  
Msida, MSD 2080

Applications should be received by not later than **noon of Wednesday, 3<sup>rd</sup> December 2008.**

**Late applications will not be considered.**

5. Further information may be obtained from the Office for Human Resources Management and Development, Administration Building, Room 217, or from the website: <http://www.um.edu.mt/hrmd/vacancies>

Office of the University  
Msida, 19<sup>th</sup> November 2008

# Call for Applications

## Posts in PO-Unit (IOI-MOC)

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### Further Information

1. The Malta Operational Centre of the International Ocean Institute (IOI-MOC) at the University is seeking to strengthen its activities in oceanographic research and modelling by adding a full time staff member to engage in multi-disciplinary projects with a focus on marine ecological modelling. This branch of research applies contemporary mathematical modelling techniques to a broad range of ecological questions relevant to marine ecosystems such as in relation to the state of health of the sea, and the effective management of marine resources. The new recruit will furthermore support the management of research projects and extend didactic and training activities in the subject. IOI-MOC aims to develop and implement research and studies related to the sea, promote education, training and public awareness as well as provide support mainly in physical oceanography focusing on the sustainable use of ocean space and resources, their management and regulation as well as the promotion and conservation of the marine environment. The PO-Unit undertakes oceanographic research, in a holistic perspective, including operational observations and forecasts, with state-of-the-art numerical modelling activities, specialised data management analysis and participation in international cooperative ventures. Besides hosting the PO-Unit, IOI-MOC forms part of the IOI network and also hosts the MedGOOS Secretariat. The MedGOOS Secretariat is the regional focal point which supports the coordination of activities related to the establishment of an operational ocean observing and forecasting system in the Mediterranean Sea.
2. The appointee is expected to perform duties under the leadership of the Director of the IOI-MOC and Head of the PO-Unit. These duties include the participation in the planning and implementation of new projects, development of numerical models and tools to study and simulate marine ecosystem functioning with direct application in the Maltese coastal waters. The appointee will undertake research assignments according to the priority activities of the Centre and will be expected to work within the research team at the PO-Unit to enhance the multi-disciplinary approach. The appointee will also be expected to deliver lecturing and training duties in connection with courses offered by the Centre. The appointee should be ready to further develop and widen the skills and expertise in a very prolific research environment.

The following is a list of tasks that the appointee may be required to perform at the PO-Unit, IOI-Malta Operational Centre:

- ◆ participate in the teaching and capacity-building activities undertaken by IOI-MOC;
- ◆ to play a key role in research supporting ecosystem-based management of Malta's coastal and marine environment;
- ◆ endeavour to develop a capacity in marine ecological modelling for the scientific understanding of the functioning and dynamics of ecological systems and the interactions of multiple human activities within them;
- ◆ play a key role in the development of a program of ecosystem-based research and management related science within the multi-disciplinary group of the PO-Unit;
- ◆ participate in research activities undertaken by the PO-Unit, and where possible initiate and lead research activities;
- ◆ participate in the preparation of research proposals;
- ◆ participate in the management and administration of projects;
- ◆ travel abroad in connection with activities of the Centre;
- ◆ undertake other appropriate tasks that may be assigned by the Director of the IOI-MOC.

Eligibility/Requirements:

- ◆ ability to understand and apply scientific literature and knowledge especially in relation to the marine environment;
  - ◆ good communication skills, both oral and written (a good command of the English Language is essential);
  - ◆ good managerial skills especially in managing projects, developing collaborations, and maintaining a very high quality of science delivery;
  - ◆ possess at least a Masters degree in Biology, Geophysical sciences or a related discipline;
  - ◆ possess a sound understanding of key marine ecosystem processes (such as in relation to trophic and habitat-related dynamics), and applications in the management of marine living resources;
  - ◆ experience in field work and oceanographic data acquisition;
  - ◆ experience or a sound disposition to apply computer programming skills;
  - ◆ teaching experience in the related subjects.
3. Conditions of work are set out in agreements with the recognised staff union. These agreements regulate, *inter alia*, the circumstances when a full-time appointee is allowed to engage in other work with the permission of the Council. The appointee will be 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 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 of Malta which are now or which may hereafter be in force.

Office of the University  
Msida, 19<sup>th</sup> November 2008