



Call for Applications Post of Part Time Research Support Officer I

Centre for Biomedical Cybernetics

1. The Centre requires a Research Support Officer I to work on a number of projects currently being undertaken, including, but not limited to: (a) development of eye-gaze tracking methods; (b) development of data sets and software related to machine learning, system modelling and parameter estimation; (c) assistance on the on-going brain-computer interfacing projects;
2. The ideal candidate should in possession of a B.Eng. (Hons) degree in Electrical and Electronic Engineering, should have good programming skills in a number of programming languages, in particular with MATLAB, should have experience with machine learning techniques.
3. This post will be for a period of 9 months and will be expected to work a total of 600 hours. The Research Support Officer I will be remunerated at the rate of Eur10 per hour.
4. Candidates should submit their letter of application, copy of their *curriculum vitae*, one set of copies of their certificates to projects.hrmd@um.edu.mt by not later than **Friday 18th August 2017**.

Late applications will not be considered.

5. Further information may be obtained from the Office for Human Resources Management on the website: <http://www.um.edu.mt/hrmd/vacancies>.

Office of the University
Msida, 2nd August 2017

Further Information

1. The Centre has a number of internal research projects and tasks that require the service of a Research Support Officer I. These research projects and tasks include, but are not limited to:
 - (a) to develop eye-gaze tracking methods: in collaboration with the Department of Systems and Control Engineering, the Centre is involved in the development of various eye-gaze tracking technologies based on videooculography (VOG) and on electrooculography (EOG). These technologies may be used in the context of assisted living and the Centre seeks to develop these technologies further;
 - (b) to develop of data sets and software related to machine learning, system modelling and parameter estimation: machine learning, system modelling and parameter estimation are three main areas in the field of cybernetics. The Centre, in collaboration with the Department of Systems and Control Engineering, requires assistance to develop data sets and software tools for these areas that may be used for research and didactic purposes;
 - (c) to assist on the on-going brain-computer interfacing projects: the Centre has been for many years in the forefront of brain-computer interfacing (BCI) and it currently has a number of internal BCI projects. The Centre requires this research support officer to assist on a number of these projects.
2. The following is a list of tasks that the appointee may be required to:
 - a. Collect data, such as VOG and EOG data;
 - b. Implement algorithms in a selected programming language, in particular MATLAB;
 - c. Process data, such as the VOG and EOG data;
 - d. Assist the academic staff with their research and tasks;
 - e. Collaborate with the academic staff in advancing the state of the art in selected areas;
 - f. Identify, specify and procure equipment and resources as required;
 - g. Assist in the research laboratories that the Centre is involved in;
 - h. Become familiar with the devices and equipment to be able to use them flexibly and with ease;
 - i. Liaise with the staff members in the development, preparation and delivery of practical classes, relevant scientific experiments and research taking place at the Centre and its collaborators as directed;
 - j. Prepare and participate in the preparation of scientific & financial reports, and produces deliverables, reports and artifacts within the time frames as specified in project descriptions;
 - k. Keep detailed progress reports and abide to all the conditions imposed by projects;
 - l. Assist in the dissemination process;
 - m. Assist in seeking internal and / or external sources of funding for research, development, service activities, and enhancement of equipment, and in preparing scientific / financial proposals accordingly;
 - n. As directed by the Director of the Centre submit regular written reports outlining the goals achieved and a tentative work forecast with relevant goals to be achieved;
 - o. Ensure through appropriate procedures that services provided by the Centre are executed within acceptable deadlines and to the expected quality standards and procedures;
 - p. Assist in establishing and nurturing international links and consolidating collaboration between the various stakeholders, locally and abroad;
 - q. Assist in the development / maintenance of relevant web pages that enhance the operation and service provided by the Centre;
 - r. Execute any other related task or responsibility as instructed by the Director of the Centre
3. The appointee is expected to work:
 - a. on a part-time basis; and
 - b. 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, 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, 2nd August 2017