

**Project SEAUX, (PTDC/EEI-PRO/2598/2014)**

## **Research Fellowship Available (MSc)**

### ***Bolsa de Investigação (Mestre)***

**(M/F)**

Applications are invited for a fellowship position that will become available in the Signal Processing Laboratory (SiPLAB) at the Center of Technological Research (CINTAL), University of Algarve, Faro, Portugal, under the project *Using acoustics for monitoring the metabolism of marine ecosystems -SEAUX*, founded by Portuguese funds through the Foundation for Science and Technology -FCT, I.P., under contract FCT PTDC/EEI-PRO/2598/2014.

SiPLAB is one of the European leading university laboratories in underwater acoustic signal processing, including prototype equipment development, source localization and sonar, model-based inversion algorithms and underwater communications (see [www.siplab.fct.ualg.pt](http://www.siplab.fct.ualg.pt)).

The successful candidate will join a group of researchers currently working on assessing oxygen production of seagrasses by acoustic methods  
([www.siplab.fct.ualg.pt/proj/seaux.shtml](http://www.siplab.fct.ualg.pt/proj/seaux.shtml))

#### **The fellowship is subject to the following conditions:**

**Scientific Area:** Electrical Engineering/Signal Processing/Underwater Acoustics.

**Admission requirements:** Applicants must have a MSc degree in Electrical Engineering (or other relevant field) with a strong emphasis in physics/propagation and signal processing, as well as good programming skills in C/C++ and MATLAB. A high level of proficiency in spoken and written English is required. Desirable qualifications will be: experience in underwater acoustics.

**Purpose of Activity:** to develop modeling and processing methods for the estimation of the seagrasses' oxygen production using acoustic systems, including testing and validation.

**Applicable laws and regulations:** Law n.º. 40/2004, from 18 of August 2010 (Estatuto do Bolseiro de Investigação Científica, em vigor), regulation of advanced training and qualification of human resources (Regulamento de Bolsas de Investigação da Fundação para a

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Ciência e a Tecnologia, I.P., em vigor) and scholarships regulation from Centro de Investigação Tecnológica do Algarve – CINTAL.

**Workplace:** The work will be carried out at the University of the Algarve (UAlg – CINTAL), under the scientific guidance of Prof. Paulo Felisberto.

**Duration of the scholarship:** The successful applicant will be given a contract of six month renewable, up to a total maximum of 32 months.

**Remuneration:** According to the table of values of the research grants awarded by the FCT; BI-M (Mestre): 980 euros/month (see: <http://alfa.fct.mctes.pt/apoios/bolsas/valores>).

**Selection:** The selection of candidates will be done by a jury consisting of the project coordinator and two other researchers, based on curriculum evaluation (50%) and interview (50%).

**Composition of the jury:** Prof. Dr. Sérgio M.Jesus, Prof. Dr. Paulo Felisberto, Prof. Dr. Orlando Rodríguez.

**Publication/notification of results:** the final results of the evaluation will be advertised through the ordered list with the final grades obtained, posted at the CINTAL - Universidade do Algarve, Campus de Gambelas, Faro . The selected candidate will be notified by email.

**Application deadline and presentation of candidatures:** The call is open between 1<sup>st</sup> October and 21<sup>th</sup> October 2016. Candidates should send a letter of application, curriculum vitae, copy of degree certificate to [scintal@ualg.pt](mailto:scintal@ualg.pt)

The work developed during this fellowship may be used for obtaining a degree.

CINTAL reserves the right to cancel the call procedure for the allocation of the fellowship in the case that all candidates do not satisfy the appropriate profile.