

## Research Position Available

(M/F)

### Ocean sound and marine mammal localization and identification

Applications are invited for a research position that will become available during the first trimester of 2021 in the Signal Processing Laboratory (SiPLAB) at the Center of Technological Research (CINTAL), University of Algarve, Faro, Portugal, under the SaveWhales project. SiPLAB is a leading university laboratory in underwater acoustic signal processing, including prototype equipment development, source localization and sonar, model-based inversion algorithms and underwater communications (see details in [www.siplab.fct.ualg.pt](http://www.siplab.fct.ualg.pt)).

The successful candidate will carry out research within the scope of the Ocean Care-funded SaveWhales project, whose main objective is to develop, install and test at sea a system for avoiding whales ship strikes in the south east coast of Crete (Greece). The role of the candidate will encompass the analysis and unsupervised processing of acoustic data received on a array of three buoys deployed in the bay of Sougia in 2020 and possibly also in the summer of 2021. Methods may include machine learning, detection, clustering and classification.

Applicants must hold a master or doctoral degree in engineering, applied mathematics or physics with a strong emphasis on signal array processing. He/she should be fluent in written and spoken English. Mandatory qualifications: experience in underwater acoustics, signal detection and estimation, as well as good programming skills in MATLAB, Python or C/C++. Desirable qualifications: experience in bioacoustics and/or ocean acoustic propagation modeling. The successful applicant will be given a six month duration contract, renewable every six month, up to the end of the project. This position may be filled through remote working.

The monthly net allowance will be 1.000 – 2.000 Euro, depending on experience and qualifications, plus social security coverage and work accident insurance. Travel expenses incurred by the candidate to and from country of origin if leaving abroad from Portugal at the time of hiring will be reimbursed upon completion of at least a successful six month period. CINTAL research positions are subject to fellowship regulations (see [www.cintal.ualg.pt/](http://www.cintal.ualg.pt/) for more information).

Qualified candidates may apply sending *Curriculum Vitae* and cover letter explaining how their experience and qualifications may fit to the requirements. Applications must be submitted either by ordinary mail addressed to *CINTAL - Centro de Investigação Tecnológica do Algarve, Att: Sérgio M. Jesus, Universidade do Algarve, Campus de Gambelas, 8005-139 Faro* or electronically to [scintal@ualg.pt](mailto:scintal@ualg.pt).

**Deadline for application: January 31<sup>st</sup>, 2021** (applications received after the deadline may be considered until the position is filled).