



La Tour du Valat is seeking for  
TdV-2017-MWO

## ***a Remote Sensing & GIS specialist***

### **Mediterranean Wetlands Observatory**

The [Tour du Valat](#) is a private foundation working for the research and conservation of **Mediterranean wetlands**. Founded in 1954 by Dr Luc Hoffmann and based in the Camargue, it is at the cutting edge of multidisciplinary fields of research, building bridges between science, management and public policies, and drawing up management plans. The Tour du Valat has internationally recognized scientific expertise, and provides practical responses to problems regarding the conservation and sustainable management of natural resources. The Tour du Valat's projects are carried out in the Camargue and around the Mediterranean Basin. The Tour du Valat employs 60 people, including 10 researchers and about ten Ph.D. or other students.

***La Tour du Valat is recruiting a remote sensing (RS) and GIS technician to produce thematic maps on Mediterranean wetlands using Earth Observation (EO) data***

#### **General context and description of the position**

Mediterranean wetlands are among the richest ecosystems in the world but also the most threatened by global changes and these anthropogenic pressures will continue to increase in the coming decades. In this context, the Mediterranean Wetlands Observatory (MWO) was created in 2008 as a scientific and technical instrument for the monitoring of wetland status and trends in this region. Among all the used tools to achieve this objective, EO-based ones are mainly implemented by the MWO in order to develop and to assess all its georeferenced indicators.

In this frame, the RS and GIS specialist will support all MWO's project leaders in charge of the implementation of these monitoring indicators across the Mediterranean basin.

She/he will be in charge of producing different thematic maps derived from satellite data (mainly Landsat, Sentinel-2 and Sentinel-1 time series) for a selection of pilot sites in the Mediterranean countries. These products will concern Land Use/Land Cover (LULC) and surface water dynamics but also the delimitation of potential wetland areas and water quality monitoring. The implementation of this mapping work will be mainly based on approaches and tools developed within the framework of the Horizon-2020 [SWOS](#) project.

By the end of this contract, the RS and GIS specialist should deliver different reports (in English) for each pilot site (wetland habitats trends over time in the context of different management and conservation programs) and all final results could also be published as scientific articles. In addition, all produced maps and derived indicators will be published on the [SWOS geo-portal](#).

#### **Main tasks and expected outputs**

- The RS and GIS specialist will be trained on all tools and software developed by the SWOS project team and the MWO (e.g. the GEOclassifier software);
- satellite data acquisition and preprocessing;
- collection of ancillary data on all the selected pilot sites;
- map production and assessment of spatiotemporal dynamics;
- results validation and preparation of reports for each selected pilot site;
- participation in the management of the MWO's GIS databases;
- participation in the development of the MWO's monitoring indicators;
- participation in the MWO's activities (meetings, workshops, symposiums ...).

**Institut de recherche pour la conservation des zones humides méditerranéennes**

Fondation reconnue d'utilité publique

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## Required skills and desirable experience for the position

### Essential

- Engineer or master degree in environmental sciences and/or geomatics (ecology, geomatics, remote sensing, geography...) or any other scientific discipline including strong components in remote sensing, GIS and ecology;
- strong ability to work with GIS software (ArcGIS and Q-GIS);
- ability to handle geo-referenced database;
- fluent at writing in English and ability to translate French texts into English summaries;

### Desirable

- Experience in working on issues related to biodiversity conservation;
- ability to do field work for the collection of RS ground data;
- French (speaking, reading and writing) would be highly appreciated.

**Gross monthly salary:** about 2000€

**Duration of the contract:** 6 months (starting from the second half of August 2017)

**Location:** Tour du Valat, Le Sambuc 13200 Arles (France)

The successful candidate will work with the MWO team under the supervision of Mr. Anis GUELMAMI, project leader at the Tour du Valat.

A PC and all software will be provided by the Tour du Valat.

### How to Apply:

Send the application file to Mr. Anis GUELMAMI <guelmami@tourduvalat.org> (reference TdV-2017-MWO) before 16<sup>th</sup> of July 2017, with:

- A cover letter;
- a resume/CV;
- names and contact details of three references (with phone numbers and e-mail addresses).

**The shortlisted applicants will be invited for an interview between by the end of July/beginning of August.** Travelling expenses can be reimbursed at the applicant's request.

For any question concerning the application procedure, please contact Mr. Anis GUELMAMI <guelmami@tourduvalat.org> / +33 (0) 4 90 97 06 32