RESEARCH TECHNICIAN FOR WQeMS, COS4CLOUD AND OPEN-EARTH-MONITOR PROJECTS (REF. 22-031-29772)

CREAF is seeking a research technician for developing some of the CREAF contributions to the WQeMS (Copernicus Assisted Lake Water Quality Emergency Monitoring Service) with ref. H2020-SPACE-2020-101004157) financed by European Commission, the COS4Cloud (Co-designed Citizen Observatories Services for the EOS-Cloud) with ref H2020-INFRAEOSC-2019-863463, financed by European Commission and Open-Earth-Monitor (A cyberinfrastructure to accelerate uptake of environmental information and help build user communities at European and global levels) with ref. HORIZON-CL6-2021-101059548, financed by European Commission.

A full-time contract is offered, with a planned incorporation in June 2022 with an initial duration of 6 months, and could easily be extended until the end of the COS4Cloud project by the end of 2023 and beyond, depending on funding and performance. The salary offered is between 23700.25 and 29907.46 € gross per year, according to skills.

TASKS

- Contribute to the development to the core of the MiraMon project [desktop (GeM+, etc) and web (MiraMon Map Server)], *e.g.*, metadata management , wider integration of formats and standards, new geographic analysis tools, etc (https://www.miramon.cat/Index_usa.htm). The development will be done in C language.
- Integration of the new requirements coming for the WQeMS, COS4Cloud, Open-Earth-Monitor or strategic interests of the Grumets group.
- Contribute to the development of other web interfaces of other developments such as the NiMMBus user feedback platform (https://github.com/grumets/nimmbus).
- Create written materials for the help and dissemination or the cited platforms.
- Apply relevant Open Geospatial Consortium (OGC) Standards to the implementations, such as the new Web APIs as well as the Sensor Things API.
- Contribute to the deliverables of the mentioned projects
- Writing scientific literature or produce materials/data supporting the writing process.
- Contribute to the promotion of the Grumets research group and to the use of the MiraMon software (desktop and web).

REQUIREMENTS

- Bachelor degree in Environmental, Biological Sciences, Geography, Informatics, Physics, Mathematics, Engineering or similar.
- Previous experience on C developments, or a specific training in the C programming language.
- Good level of written English.

ASSESSABLE CONDITIONS

- Master in Remote Sensing and GIS or similar.
- Good level in the use of MiraMon, including the use of batch processing
- PhD in Environmental, Biological Sciences, Geography, Informatics, Physics or similar
- Some level of programming skills in at least one of the following languages: Python or JavaScript.
- Experience in post doctorate research and development work or supporting research and development.
- Training and experience in topics such as Remote Sensing, GIS or Data Management.
- Fluency in exposing ideas and discussing in public.
- Experience in previous national or international research projects.
- Deep knowledge in geospatial standards (sensors, metadata, data quality web services, APIs).
- Careful attention to details.
- Working independently but in constant coordination with a team.
- Good level of Catalan, written and spoken.

SELECTION PROCESS AND CRITERIA

1. Admission of candidates: **applicants must submit a:**

   o **A Curriculum Vitae (CV)**
   o **A cover letter (max. 2 pages)**
   o **The questionnaire attached to the offer (filled),**
   o **And provide a description and a link to a GitHub (or equivalent) of previous C language projects or developments** with particular attention to the ones that are not based on external libraries but in actual algorithmic code done by you, as part of the content of the **cover letter**.

   by e-mail to laboral@creaf.uab.cat, until 4 May 2022, indicating the reference code of the offer. Applications referred to another portal, other than CREAF job openings section and the instructions included in this, will not be accepted.

2. Pre-selection: determination of compliance with the minimum requirements of the offer.
3. Selection: assessment of the preselected candidates by scoring based on objective criteria.
4. A subset of candidates will be required to do a time-controlled exercise using C. if needed to complete the selection.
5. Final decision: in case of finding the suitable person, the election will be formally communicated to him/her, and the identification of the chosen person will be published on CREAF job openings section.