

It complies with the European Charter for Researchers and the code of conduct for the recruitment of researchers

Job vacancy to support in the national project CIANOALERT: Intelligent alert for the proliferation of cyanobacteria harmful algal bloom for water-based industries (Programa Estatad de I+D+i Orientada a los Retos de la Sociedad)

Ref.: AI 2018-01

FUNDACIÓN IMDEA AGUA
Avda. Punto Com, 2
28805 Alcalá de Henares (Madrid) - SPAIN

IMDEA Water is a non-profit research Institute, promoted by the Regional Government of Madrid, to carry out research in water technologies. This Institute is part of the IMDEA network, the institutional framework that combines support from both the public and private sectors and harmonizes research with market demand, strengthening the presence of the private sector in science.

The position

This call is for hiring a research assistant to support in the project “CIANOALERT: Intelligent alert for the proliferation of cyanobacteria harmful algal bloom for water-based industries”. The selected candidate will be offered a full-time employment contract (37.5 hours/week) for a period of five months.

The annual gross salary will be 20.000 Euros.

The work to be performed will be focused on monitoring cyanobacterial bloom formation in fresh water reservoirs using several technologies.

The selected candidate will work under the supervision of the line manager cited below.

Number of positions	Research line	Main researcher	Studies required
1	Cyanobacteria and cyanotoxins	Rehab El-Shehawy	Bachelor in industrial and automatic electronic engineering

The work to be done includes:

- Multiparametric sensor systems configuration and management.
- Development of databases.
- Remote data acquisition and processing.
- Outdoor Wireless Sensor Networks implementation and maintenance.

The starting day of the new employee is expected to be in March 2018.

Requirements

Candidates must satisfy the following requirements:

- Bachelor in industrial and automatic electronic engineering.

Selection criteria

- Curriculum vitae
- Official academic transcripts (complete list of courses taken, grades and qualifications) of the title of Bachelor.
- Experience in designing, fabrication and testing of electronic circuits and complete electronic systems.
- Experience in using operating Systems at user level (Windows, Linux). Experience using electronic instrumentation. Experience in electronic simulation and CAD software (Eagle, Orcad, Altium...) and mechanic CAD software (Autocad...).
- Experience in programing of microcontrollers and embedded systems (for embedded systems merits will be given for knowledge of programing of FPGAs).
- Experience in programing of control applications. Programing in C/C++, java, Python... Use of Matlab and/or Matchcad.
- Demonstrate previous experience in monitoring and data acquisition systems.
- Required competence: Good analytical and problem-solving capacity, being an organized person and having the capacity to design, monitor and achieves work tasks.
- Capacity to adapt to the new working conditions

Those candidates with the best profile may be summoned for an interview (interview can be in English and/or Spanish).

Documentation to be delivered

Candidates must present the following information:

- Curriculum Vitae.
- Official academic transcripts (complete list of courses taken and grades) of Bachelor
- A cover letter presenting her/his candidacy and merits, and including her/his personal motivation to join the research team.

Form of application

Applications and associated documents should be sent by e-mail to oferta.agua@imdea.org indicating the reference of the position in the subject (Ref. AI 2018-01).

Only applications that include all required documentation mentioned in section "Documentation to be delivered", submitted electronically and within the deadline specified in the section below will be taken into consideration.

Deadline

Deadline for submission of applications is January 28, 2018.

Applications received by other way than that specified in this call, after deadline or incomplete will be automatically rejected.

Workplace

The workplace is at IMDEA Water Foundation: Avda. Punto Com, 2 - 28805 Alcalá de Henares, Madrid.

Resolution

Receipt of applications and final decisions will be personally communicated by e-mail to all candidates.

Personal data protection

In accordance with Organic Law 15/1999, of 13th December, on Personal Data Protection and its implementation regulation, all candidates accept that all the data included in his (her) application are to be included in a data file under the responsibility of IMDEA WATER FOUNDATION, with corporate address at Avda. Punto Com, 2 - 28805 Alcalá de Henares (Madrid) for the purpose of manage the selection process and guaranteeing all candidates with the right to access, correct and cancel all their personal data and its treatment by the IMDEA WATER FOUNDATION in the above mentioned address.

The CIANOALERT project (RTC-2016-5087-2) is funded by the Ministry of Economy and Competitiveness and by the European Union through the European Regional Development Fund (ERDF)