

Research engineer position in microbiology: bacteria detection in different water matrixes

Mon, 2020-07-20 10:14 - [ICFO - The Institute of Photonic Sciences](#) [1] **At:** ICFO - The Institute of Photonic Sciences

Deadline: 20 September, 2020

Location

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Research engineer position in microbiology: bacteria detection in different water matrixes

The **Optoelectronics group** led by **Prof. Dr. Valerio Pruneri** at ICFO-The Institute of Photonic Sciences in Barcelona Spain is looking for a highly motivated Research engineer to work in a multi-disciplinary project involving water processing, photonics, microfluidics and signal processing, to be part of a team with the aim to validate biosensing devices in the field of waterborne microorganism detection.

The position implies standard microbiology bacteria culture, sample preparation procedures, sample characterization, SOP writing and result presentations.

The position will be funded by the project funded by the Agència Catalana de l'Aigua (ACA) signed between ICFO and ACA on July 13, 2020

Eligibility and Conditions

Candidates must hold an internationally-recognized biology or bio-engineering/ chemical engineering degree.

The candidate should also have:

§ Previous experience in working with bacteria.

§ Previous experience in biological sample preparation, cell biology reagents and assays. Previous experience with Flow cytometry systems or cell counting by culture methods is a plus. Previous experience on Filtration using hollow fibre filtration systems.

§ Knowledge of sampling from environmental locations

§ Experience in Solids liquid separation techniques using polymeric flocculants is a plus.

§ Previous experience in optics, optoelectronics, optical sensors, digital electronics and signal processing is a plus.

§ Programming experience in Python. C++, JavaScript would be a plus.

§ Medium-high level of written and oral communication skills in English. Very good communication and teamwork skills, be proactive.

§ High sense of responsibility, very good organizational and documentation skills.

ICFO is an equal opportunity employer. Candidates are selected exclusively on merit and potential on the basis of submitted application material. No restrictions related to disabilities, citizenship or gender apply to ICFO positions. ICFO abides by the principles of openness, efficiency, transparency, supportiveness, and international comparability as stated in the European Charter for Researchers and the European Code of Conduct for the Recruitment of Researchers.

The contract is offered for a period of one year (with an initial probation period), with the possibility for extension, with full-time dedication.

Remuneration according to knowledge and experience provided.

Application procedure

The formal application should be submitted online via <http://jobs.icfo.eu/?detail=521> [2]

Suitable candidates are requested to submit:

- Presentation letter with a declaration of interest,
- Curriculum Vitae, including contact details,
- The contact e-mail of two potential referees.

Candidates may contact [jobs \[at\] icfo \[dot\] eu](mailto:jobs@icfo.eu) for informal enquiries regarding the application, as well as address scientific enquiries to Prof. Dr. Valerio Pruneri at [valerio \[dot\] pruneri \[at\] icfo \[dot\] eu](mailto:valerio@pruneri.icfo.eu).

For updated information about ICFO, please visit <http://www.icfo.eu/> [3] .

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