

## Postdoctoral Fellow in Microbial Ecology

Applications are invited for an ANR (French Research National Agency)-funded 18 months postdoctoral position under the multidisciplinary project IngECOST-DMA (Eco-engineery applied to integrated management of As-rich tailings and acid mine drainage). **In this context, passive biological treatment of arsenic-rich waters is investigated based on the activity of iron- and arsenic-oxidizing micro-organisms.** The postdoc will have in charge the monitoring of the microbial biofilm communities that develop in a biological oxidation device. In collaboration with a PhD student and other researchers, he/she will test the incidence of biotic and abiotic parameters on microbial community diversity and functions in relation with Fe and As removal. The project, which started in January 2014, involves laboratory and field experiments and a close collaboration with geochemists of HydroSciences Lab for the investigation of the biogeochemical processes occurring in water and in the biofilms. The study site is the abandoned Pb-Zn mine of Carnoulès (Southern France).

The applicant must have or be about to obtain a PhD in microbial ecology or related area. He/she must have experience in new generation sequencing (NGS) approaches and in bio-informatic and bio-statistic tools for sequence analysis. Additional knowledge (or interest) in biofilms and biogeochemistry would also be appreciated. Other skills required: ability to work as part of a team, flexibility, initiative and willingness.

The work will be conducted under the supervision of M. Héry (microbial ecologist) and C. Casiot (geochemist), in collaboration with a PhD student working on the biogeochemical aspects and will benefit from the assistance of technicians (one analytical chemist, one microbiologist) involved in the project. The place of employment is HydroSciences Lab in Montpellier and the position is expected to start in March-April 2015.

**Salary:** the net monthly salary, around 1800-1900 euros, includes social services and health insurance but does not include income taxes.

**Applications:** Interested applicants should submit a motivation letter, a *curriculum vitae*, and details of two referees. The applications should be sent by email to: [marina.hery@univ-montp2.fr](mailto:marina.hery@univ-montp2.fr) and [casiot@msem.univ-montp2.fr](mailto:casiot@msem.univ-montp2.fr) before the 5<sup>th</sup> of February 2015.