



POST-DOCTORAL POSITION in bioinformatics and microbial ecotoxicology

**Researchers of the LOMIC need collaborators for their activities in the frame of
Colonization and biodegradation of plastic by marine
bacteria: from bioinformatics to functions and application**

The post-doc position is available for **12 months** renewable, starting in the 1st of February 2020 to work on metagenomic insights on the colonization and biodegradation of plastics by marine bacteria.

Background and tasks:

Bacteria living on plastics at Sea, called “plastisphere”, are highly diverse and active. Their ability to degrade plastics in natural conditions are not well characterized, since most of the previous studies used cultured bacteria under laboratory conditions. We are coordinating several project ([Tara Ocean-Microplastics2019](#), [ANR-OXOMAR](#), [French ministry-MICROBEADS](#) and [-BIOTIGES](#), [CNRS-PHABIO](#), [CNRS-BIOGEOPLAST](#)) to give new insights on the colonization and biodegradation of conventional (PE, PP, PS) and so-called “biodegradable” (PHA, PCL, PLA, OXO) polymers in natural conditions. Together with field campaigns all around the world (Tara Ocean, Seventh continent, Race for Water), we are using aquarium devices with open circulation to the Sea to mimic environmental conditions.

The candidate will be part of the [LOMIC](#) unit at the [Oceanologic Observatory of Banyuls](#), which has a strong expertise in marine microbial ecology and ecotoxicology. We are working in close collaboration with the French national center for sequencing [CEA-Genoscope](#) to generate large amount of metagenomic data. The position will benefit of a large consortium with experts in oceanography, biogeochemistry and molecular microbial ecology, as well as physics and chemistry of the polymers from academic research and industry.

Requirements and salary:

Practical experience and autonomy in metagenomic data analysis is required. The successful candidate will be highly motivated and able to work in close connection with the team.

Salary will be commensurate with regular French post-doctoral research stipends.

Deadline for application and contact:

Open until the 15 January 2020. Please contact Jean-François GHIGLIONE (ghiglione@obs-banyuls.fr) for informal inquiries or applications (please attach CV and describe motivation).