

Postdoc in ecology. Seaweeds on the beach (18 months, CESCO, MNHN).

Applications are invited for a 18 months postdoc position conducting ecological analyses. The postdoc will join the project team of Plages vivantes (<https://plagesvivantes.65mo.fr/>) and will collaborate closely with partners (stakeholders, citizens...)

Monitoring, understanding and accompanying the impact of global changes on coastal marine biodiversity and shorelines are crucial for the conservation of biodiversity. Beach wrack - seaweed deposition- have important roles for conservation (rare, vulnerable species) and coastal ecosystem functions (trophic, erosion mitigation). Their composition and their quantity are expected to change under global warming and eutrophication, seaweed exploitation. And these composition changes are likely to result in changes in beach wrack management. We hypothesized that surveying strand line (beach wrack) could i) inform on spatial and temporal changes of proximal marine ecosystems (seaweed biomass, community composition) and ii) allow to better understand the impact of global changes on (socio)-ecosystem relationships (sand beaches). We co-construct a citizen monitoring program of beach wrack ecosystem (Plages Vivantes, Chanel-Atlantic French coast) in collaboration with stakeholders (NGOs) and built an interdisciplinary research team.

The next step is to analyze the standardized data collected at large scale (>150 sites) using a functional approach (species characteristics, community approach..) and develop complementary surveys. The aims are i) to study the spatial and temporal variability of seaweed composition of beach wrack and assess its determinants, to document and hierarchize the effects of anthropogenic and climatic drivers on beach wrack composition, ii) to assess to what extent and in what conditions the monitoring of beach wrack could produce relevant indicators of marine proximal ecosystems.

We are seeking highly motivated applicants, interested in the causes and consequences of biodiversity change, community ecology, biodiversity conservation (and if possible, citizen science), **who have, during the past 36 months, spent more than 18 (months) in a foreign country, other than France** (constraints due to financial support).

Salary will depend on diplomas and experience (between 1800-2000 euros net/month).

Applicants should have a PhD in ecology and analytical skills. The position will be based at the CESCO-UMR 7204, Center of Ecology and Conservation Sciences (<https://comacparis.wixsite.com/comac-group> ; http://cesco.mnhn.fr/fr/ecologie-des-communautes-macro-ecologie-et-conservation-6115?_ga=2.54179361.821566419.1541432179-1550543240.1529530400), of the National Museum of Natural History, in the marine station of Concarneau (<http://www.stationmarinedeconcarneau.fr/fr/recherche-enseignement/recherche-2292>).

Please send your application by email (as a single PDF by email) to isabelle.le-viol@mnhn.fr. Applications should include a CV, with publications list and other scientific works, professional degrees..., as well as a letter of interest. Additional reference letters (or names and addresses of two references) would be appreciated. Applications will be reviewed from 7th December 2018 until the position is filled.