

Research engineer position starting from June 2025

*Financed by PRIMA: Partnership for Research and Innovation in the Mediterranean Area
(EU's research and innovation programmes Horizon 2020 and Horizon Europe)*

FoWRSaP project: Agro Food Waste Recovery: new processing technologies for food Safety and Packaging



Context:

FoWRSaP envisions an innovative and sustainable future for food packaging. Through biopolymers and advanced tech, it aims to revolutionize food preservation. Across the Mediterranean, **FoWRSaP** seeks a greener, efficient food value chain benefiting consumers, agro-food industries, and the environment.

FoWRSaP addresses at the same time: **i)** the production of biodegradable packaging with antimicrobial effect using biopolymers (CHT, PLA, and EPS) as an alternative to synthetic plastic, **ii)** green extraction of CHT from sea products transformation and mass reared insects and EPS produced by microorganisms and **iii)** the use of food bio-wastes as a source of bioactive compounds that will be combined with biopolymers for the development of bio-packaging with enhanced antimicrobial effect, in the perspective of a circular economy.

The **FoWRSaP** consortium is strategically assembled to excel in Mediterranean agro-food innovation. Leveraging the diverse expertise of its partners, with a track record in coordinating European and national projects, each member contributes unique skills. Spanning 5 EU countries and 5 Third Countries, the consortium includes 3 SME, 10 Universities, and 4 Research centers. **FoWRSaP** employs a multidisciplinary approach, engaging experts in various fields to drive research success and practical outcomes.

More information: https://research-and-innovation.ec.europa.eu/research-area/environment/prima_en

Candidate profile:

The candidate will be working on the formulation of extrusion films at lab scale in order to improve the functional characteristics of biopolymers and compounds previously cited in the context part. Chemical and physico-chemical characterizations of the biopolymers and compounds produced will be made by the candidate. IRDL has the rheological, mechanical, thermal and microscopic characterization tools that will allow the different formulations to be characterized.

We are looking for a candidate having a strong team working ability, with expertise in chemistry and polymer science. Knowledge of at least one of the following topics will be highly appreciated: physico-chemistry, characterization and formulation of biopolymers. Candidate must be proficient in English as the consortium is international.

Duration:

18 months, starting from June (or July) 2025 to November (or December) 2026)

Location:

The academic work will be carried out at the Dupuy de Lôme Research Institute (UMR CNRS 6027) at Lorient.

More information: <http://irdl.fr>

Contact:

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Please send a detailed CV, a cover letter and at least one recommendation letter.