

# MARIE CURIE PHD OPPORTUNITY POSITION IN IRELAND

Bantry Marine Research Station, registered at University College Dublin (UCD)

## PhD title: Ensiled seaweed as an alternative biorefinery input substrate

**EUROPEAN TRAINING NETWORK - AgRefine - A Disruptive Innovative Cooperative Entrepreneurial (DICE) education, training and skills development programme rolling out the next generation of Agri Biorefinery and Valorisation Bioeconomy leaders.**

### KEYWORDS

- Bioeconomy
- Seaweed cultivation
- Microbial fermentation of seaweeds

### AgRefine NETWORK GOAL

To train PhD students to become the bioeconomy leaders of tomorrow with the necessary skills and knowledge to position Europe as the global leader in developing an agri-bioeconomy industry based on advanced biorefinery technologies.

This PhD is funded by the H2020 / Marie Skłodowska-Curie Action



The network includes:

- 6 countries
- 5 European Universities
- 1 applied research institute
- 8 industry partners
- 1 regulatory body
- 1 industry network

We will provide a unique combination of “hands-on” research training, non-academic placements, summer schools and workshops on research-related and transferable skills.

**The PhD programme includes training events and industry secondments**

Researchers must not have resided or carried out their main activity (work, studies, etc.) in Ireland for more than 12 months in the 3 years immediately before the recruitment date.

**Ensiling seaweed as an alternative biorefinery input substrate**

**In this PhD you will investigate:**

- a novel seaweed-ensiling process as an alternative to drying to preserve seaweeds nutritional and monetary value
- the waste effluent produced by the silage
- implement seaweed cultivation optimisation strategies with the aim of maximising seaweed protein and/or mannitol content

### Work Location

You will be based in Bantry Marine Research Station, in west Cork, Ireland and will be registered University College Dublin (UCD).

**Supervisors:** Dr Julie Maguire (BMRS) with inputs from Prof. Kevin McDonnell (UCD).



### CANDIDATE SPECIFICATIONS:

- must have obtained a Master level degree in biology
- work well in a multidisciplinary team
- confident in both analytical lab and running field experiments.
- Experience in phycology; productivity measurements and microbiology
- excellent proficiency in written and spoken English (CEFR Level C1)

### To apply please send your

- detailed academic transcripts in the form of certified copies of all undergraduate and postgraduate level certificates
- a motivation letter
- three reference letters from previous professors or mentors

to Dr Sara Barrento [Sbarrento@bmrs.ie](mailto:Sbarrento@bmrs.ie)

Dr Julie Maguire [jmaguire@bmrs.ie](mailto:jmaguire@bmrs.ie)