

Research Assistant



SuSeWi Ltd

Location:	London
Salary:	£28,000
Hours:	Full Time
Contract Type:	Permanent
Job Reference:	PD1

About Us:

SuSeWi is a UK-based algal aquaculture company, who has developed and tested a patented methodology to grow wildtype microalgae at scale, in controlled, land-based open raceway ponds, using free inputs such as Sun-Sea-Wind (hence Su-Se-Wi). Our London laboratory promotes interdisciplinary research between biology, chemistry, and engineering; with the aim of better understanding the effects of environmental factors on cell physiology, productivity and stoichiometry. The research we produce is directly relayed back to our production facility in Morocco to further improve pond operations and enhance produce yields.

About the Role:

We're recruiting a Research Assistant to help in our ongoing Product Development laboratory experiments. Our existing programme of work aims to characterise, extract and valorise marine microalgae for the large-scale production of high value products. To achieve this goal, you'd be expected to scale-up algal cultures, before analysing biochemical compositions and products using in-house analytical equipment as well as arranging additional analysis through 3rd party vendors. Once initially screened, more detailed analysis of fatty acids, pigments, proteins and pigments will be measured across varying growth conditions. In addition to cultivation and analysis; you will be expected to also help develop and optimise extraction methods and purification steps.

Responsibilities:

- Assist in the maintenance and curation of our microalgae collection
 - Contribute to experimental design, setup, data collection and analysis
 - Help develop and optimise methods for algal extraction, purification and analysis
 - Work with project partners and external companies and academic institutes for product development
 - Occasional visits to FAM (Morocco) to assist in training, experimental setup and data collection
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Education, Training & Qualifications:

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| • Minimum MSc in Chemistry, Microbiology, Life Sciences, Food Science or related subject | Essential |
| • Experience and knowledge of high value products in algae and cyanobacteria | Essential |
| • Strong analytical skills (GC-MS, GC-FID, HPLC, SDS-PAGE etc) | Essential |
| • IT (code) and/or analytical chemistry skills | Essential |
| • Knowledge and experience of extraction techniques | Desirable |
| • Experience and knowledge of sterile microalgal cultivation techniques | Desirable |
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Specific Skills & Abilities:

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| • Good organisational skills and ability to prioritise and multitask | Essential |
| • Personal drive, initiative, flexibility and working both independently and within a team | Essential |
| • Ability to problem-solve, and research and develop new technologies for product extraction | Essential |
| • Ability to effectively communicate and present findings (written and oral) | Essential |
| • Right to work in the UK | Essential |
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The position is available from 1st January 2021. We offer standard pension contribution, holiday entitlement, and other optional benefits such as private healthcare. For more information on the project and job role please contact Raffael Jovine (raffael@susewi.life) and Toby Boatman (toby@susewi.life).