

## Postdoctoral Researcher post Circular Economy, TUD, Dublin

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| <b>College</b>                                    | <b>Faculty of Business</b>       |
| <b>School/Research Institute/Centre/Unit</b>      | <b>ESHI</b>                      |
| <b>Post Title</b>                                 | <b>Postdoctoral Researcher</b>   |
| <b>Project</b>                                    | <b>FORWARD</b>                   |
| <b>Post Duration</b>                              | <b>24 months</b>                 |
| <b>Name of Principal Investigator /Reports to</b> | <b>Dr Anushree Priyadarshini</b> |

### **Position Summary**

This is a key appointment in the FORWARD project that brings together researchers from Technological University Dublin (TU Dublin), Munster Technological University, and University College Cork. The central objective of FORWARD is to develop a “waste-to-value” bioeconomy by assessing, quantifying and developing a circular bioeconomy approach to food waste. The primary purpose of the research role is to conduct cross-sectional survey for quantifying food waste in Ireland and conduct Life Cycle Analysis (LCA) and Life Cycle Costing (LCC) of the generated food waste so as to measure its environmental impacts and economic costs.

FORWARD focuses on the ‘National Waste Action Plan for a Circular Economy’ to support a ‘Zero Waste’ approach by facilitating an integrated reduce, reuse, recycle approach. It will provide improved evidence-based policy alongside reduced waste creation via accurate estimation of GHG emissions, water and land use, together with individual and household-scale economic losses per kg of food waste generated. Specifically, the Postdoctoral Researcher will (a) conduct a national survey for quantifying volumes and composition of household food waste generated in Ireland and identify clusters (spatiotemporal, occupational, demographic) of food waste streams and (b) Undertake environmental and economic assessments via Life Cycle Analysis and Life Cycle Costing of generated food waste and equivalent valorization into value added product(s)

The Postdoctoral Researcher will be based at the Faculty of Business at TU Dublin, and report to Dr Anushree Priyadarshini and Dr Paul Hynds. The Postdoctoral Researcher will closely liaise with the project partners, co-PIs Prof Marcel Jansen (UCC), and Dr Gaurav Rajauria (MTU) and a project Research Assistant (UCC).

Apart from conducting the survey, LCA and LCC, the Postdoctoral Researcher may also be required to assist with public outreach, stakeholder interactions, report writing and supervision of student research-projects.

The duties of the successful candidate will include:

- Pro-actively working with the PI, the Postdoctoral Researcher will assist in quantifying food waste generated by Irish households and measure its environmental impacts and economic costs
- Liaising with project partners
- Contributing to outreach activities, stakeholder engagement and student research projects
- Report writing

The Postdoctoral Researcher post has an expected duration of 24months, subject to the term of the project.

**Salary: €52.450- gross**

### **ROLE SUMMARY**

A Postdoctoral Researcher will work under the direction of the Principal Investigator/Project Leader and perform a variety of technical duties in support of the research project.

### **KEY DUTIES AND RESPONSIBILITIES**

- To work under the direction of the Principal Investigator.
- To perform a variety of duties involved in supporting the research project(s) or programme.
- To work with the Principal Investigator to review work assignments and to develop plans to support the research/area.
- To explore published literature and other sources of knowledge for relevant information.
- To engage in drafting reports and journal publications.
- To maintain detailed notes of activities and progress.
- Collection and analysis of data.
- To engage in dissemination and engagement activities for the project.
- To ensure Health and Safety.
- To support PhD students in the research group and perform other related duties incidental to the work described herein.
- To carry out any additional duties as may reasonably be required within the general scope and level of the post.

**CRITERIA**

- A PhD qualification in a field of discipline relevant to the area of investigation.
- Experience in Life Cycle Assessment (LCA).
- Experience and/or understanding of conducting large scale surveys.
- Excellent writing skills and experience in drafting reports and/or publications.
- Demonstrated ability to work well within a team.
- Ability to maintain records and excellent computer skills.
- Excellent organisational and administrative skills, including a proven ability to work to deadlines.
- Please note that Garda vetting and international police clearance check may form part of the selection process.

Informal enquiries can be made in confidence to <Dr Anushree Priyadarshini>, <Faculty of Business>, Email: [anushree.priyadarshini@tudublin.ie](mailto:anushree.priyadarshini@tudublin.ie)