

KTP Associate- School of Engineering/Heyside Plastics Limited - KTP Associate Grade

Job Description

Purpose

To support Heyside Plastics Limited with their project which aims to become a manufacturer of high quality recycled plastic products from a range of input waste sources. Currently based around PVC recycling, the company has ambitions to manufacture a wider range of products from PVC and to diversify into other types of polymer waste in a safe and sustainable way.

The post holder is expected to contribute to the project in terms of fulfilling the tasks assigned to the university, whilst further developing their skills and experiences during the KTP.

Duties

1. To complete a detailed action plan with Gantt chart, risk assessment and detailed task list for each of the project stages.
2. To organise and arrange Local Management Meetings (LMC) as required under the funding
3. To review the supply chain for recyclable PVC materials.
4. Detailed polymer analysis of current PVC feedstock.
5. Review opportunities for the sale of pelletised PVC feedstock.
6. Specification and commissioning of PVC pellet production unit.
7. Design new PVC products and production methods.
8. Evaluate new recycled polymer supply chains.
9. Design new polymer products and production methods.
10. Carry out a feasibility study for the implementation of a take-back scheme.
11. Develop stakeholder network to support a circular economy approach.
12. Prepare and present professional and academic reports.
13. To act as a link between the Project Team and external businesses.
14. To carry out research administrative duties as required to meet the requirements for the Innovate UK funding.
15. To create a personal development plan agreed with the local management committee.
16. To undertake any other additional research related activities as requested by the academic and industrial supervisors.

Person Specification

Knowledge, Skills, and Behaviours (Essential)

- Relevant experience in an engineering manufacturing area (Application/Interview).
- Experience of working with polymers (Application/Interview).

- Undergraduate degree in either Mechanical Engineering, Materials Science, Manufacturing Engineering or similar discipline (Application)
- Ability to produce formal reports and publish research papers (Application/Interview).
- Proven ability to carry out and lead projects (Application/Interview).
- Excellent presentation and communication skills with the ability to communicate with a range of stakeholders (Application/Interview).
- Methodical with a good attention to detail (Application/Interview).
- An understanding of and demonstrable commitment to the University's Values of Achieving Together, Being Proud, Creating Opportunity and Supporting All, as a framework for decisions, actions and behaviours (Application/Interview).

Knowledge, Skills, and Behaviours (Desirable)

- Postgraduate degree in a relevant subject (Application).
- Membership of a professional organisation or trade association (Application).
- Ability to design and implement a manufacturing cell (Application/Interview).
- Waste and resource management experience and understanding of the role of the Circular economy to business development (Application/Interview).