

Chemical Engineer - Sustainability & Dyes

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Company: CT19

Location: London Area

Category: other-general

We are a leading innovator in colour & fibre technologies, committed to advancing chemical solutions for recycling colours from textile waste and enhancing the efficiency of fabric recycling. Our vision is to foster a future where environmentally conscious textiles are crafted through circular processes and transparent supply chains in every stage of manufacturing. Currently, we are engaged in process scale-up and testing projects with key partners across the supply chain. We are looking to hire an experienced Chemical Engineer / Process Engineer to lead the development and scale-up of our chemical dye technology. Role: Chemical Engineer Location: London Salary: DoE + Company Benefits Responsibilities: Design, execute, and analyse experiments conducted in pressure reactors or packed bed reactors. Supervise and execute pilot projects and scale-up studies at various locations. Contribute to process development, including reactor selection, design, set-up, optimization, and scale-down/scale-up studies. Apply engineering principles (mass and energy balances, thermodynamics) and utilize computational modelling (CAD, ASPEN, etc.) to create process flow diagrams and plant designs. Effectively communicate experimental results and implications across all levels of the R&D team. Modify and enhance reactor hardware for increased functionality; operate and maintain process equipment (bio-analysers, centrifuges, bioreactors, autoclaves, etc.). Author tech transfer documents, Standard Operating Procedures (SOPs), Batch Production Records (BPRs), and other quality/R&D documentation as needed. Qualifications: MSc or PhD in Chemical Engineering, Materials Science, Process Engineering, or a related field. Minimum of 4+ years of industry experience in process development. Experience with pilot and demo scale material production processes in a

similar space Demonstrated ability to apply conservation of mass and energy principles in data analysis and process modelling. Experience/working knowledge in lean/agile manufacturing methodologies Nice to Have (But Not Required): Experience with commercial-scale manufacturing. Experience with solvent-based processes Knowledge of textile production processes & textile chemistries & finishing Design and sourcing of pilot and demo scale equipment Experience writing grant and patent applications

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