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**JOB DESCRIPTION**

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| **Job Title:**  **Research Associate in Process Engineering** | **Present Grade:** 6P |
| **Department/College:** Engineering |
| **Directly responsible to:** Dr. Farid Aiouache, Senior Lecturer, School of Engineering |
| **Supervisory responsibility for:** Undergraduate and postgraduate placement students |
| **Other contacts**  |
| **Internal:***University* Staff and postgraduate students of the Department of Engineering at Lancaster University;  |
| **External:**  None |
| **Major Duties:**The Research Associate will drive and lead a project funded by OFWAT (The Water Services Regulation Authority) to develop a new water treatment process for removal of dissolved organic carbon (DOC) using novel magnetic composites.You will work closely with and be supported by academics from the School of Engineering in collaboration with Lancaster Environmental Centre, Management School and University of Bristol. You will split your time between Lancaster University and ICT Reverse as detailed in the Project Plan, to undertake the project and embed your knowledge into the company.Key ResponsibilitiesUnder the supervision of academics as illustrated in the project phases, you will undertake the following programme of work between 1 1 June 2025 and completed by 30 September 2026 * Design, manufacturing and installation of pilot scale reactors for batch and continuous operations (CAD, scaleup, PFD and P&ID, product analysis, HAZOP, Health & safety protocol, and regulations and policies compliance)
* Equipment assessment and laboratory test performance: DOC removal from drinking waters (construction and testing)
* nanocomposite magnetic composites separation and regeneration
* Submission of activity report on dissolved organic carbons (DOC) removal performance by NMCs via a proof-of-concept tubular baffled reactor

You will also* Take full ownership of the project, managing work plan delivery, timing, resources, budgeting, embedding and evaluation of outputs and the associated tangible benefits.
* Produce reports, reviews, and deliver presentations and webinars to inform academic staff and project partners of project developments, set out options and make recommendations to enable key decisions to be taken by the project board.
* Produce a project final report, a case study that can be made publicly available and a presentation to communicate project outcomes.
* Occasionally, at the request of supervisors, perform other duties to ensure the successful completion of the project.
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