



Job Reference Number: UOS038538

Job Title: Research Associate in Drinking Water Biofilm Management

Contract Type: Fixed term for 6 months

Working Pattern: Full time

Faculty: Faculty of Engineering

Department: Department of Civil and Structural Engineering

Salary: Grade 7
£37,099 - £45,585 per annum

Closing Date: 7th October 2023

Summary:

We have an exciting opportunity for post-doctoral research to join our world leading drinking water distribution research group, within the Department of Civil and Structural Engineering. We are looking for someone with a passion for water quality research, who has and ways to apply their skills between engineering and microbiology to help protect and maintain the supply of safe drinking water. The role will focus on undertaking physical experiments to derive new understanding of drinking water quality and biofilm management.

You will work in a well-connected team with world-leading reputations in the Sheffield Water Centre. The department hosts the UK's largest urban water research discipline, bringing together people from different expertise to advance engineering and scientific knowledge across all aspects of water engineering. You will use your research skills to become an essential member of the Engineering and Physical Sciences Research Council (EPSRC) and UK Water Industry Research (UKWIR) funded 'To Chlorinate, or Not To Chlorinate' project team, working with other researchers within the University of Sheffield, other universities and industry partners.

As this role requires the planning and implementation of an ambitious programme of experimental laboratory and field research, it provides an excellent opportunity to develop your skills in multidisciplinary research which integrates both engineering and microbiology skills. Working alongside members of the 'To Chlorinate' team, the role will offer you an opportunity to collect and analyse water quality and biofilm data from experimental studied, present at collaborative project meetings and lead on preparation and delivery of academic dissemination for journals and/or conferences.

Educated to PhD level within the subject area of water quality and biofilms within civil engineering or microbiology, you will bring essential specialist knowledge and experience in microbial research methods (to assess biofilms and water quality) and techniques to work within established research programmes. The aim of this research is to deliver knowledge and tools to determine pathogen risks from biofilms drinking water distribution systems and inform disinfection residual strategies. If you are passionate about a career in water quality research, then we would love to hear from you.

We are committed to exploring flexible working opportunities which benefit the individual and University.

We're one of the best not-for-profit organisations to work for in the UK. The University's Total Reward Package includes a competitive salary, a generous Pension Scheme and annual leave entitlement, as well as access to a range of learning and development courses to support your personal and professional development.

We build teams of people from different heritages and lifestyles from across the world, whose talent and contributions complement each other to greatest effect. We believe diversity in all its forms delivers greater impact through research, teaching and student experience.

Apply now by clicking on the Apply button located near the top left of your screen.