



PhD Scholarship Advertisement

Two Fully Funded PhD Scholarships in Sulphate-stressed Anaerobic Digestion Systems College of Science and Engineering/School of Engineering/Civil Engineering

Applications are invited from suitably qualified candidates for two 4-year full-time PhD scholarships starting in August, 2023 affiliated to the College of Science and Engineering/School of Engineering/Civil Engineering at the University of Galway.

University of Galway:

Located in the vibrant cultural city of Galway in the west of Ireland, the University of Galway has a distinguished reputation for teaching and [research excellence](#)

For information on moving to Ireland please see www.euraxess.ie

Detailed Project Description:

Methane recovery from waste reduces the dependence on fossil fuel energy, fulfilling the Sustainable Development Goals. However, the existence of sulphate inhibits methane production, which can be alleviated by dosing conductive materials. In this project, by combining advanced techniques from microbiology, engineering, and chemistry, underlying microbial mechanisms and interactions for methane production will be investigated with the dosage of conductive materials for alleviating sulphate inhibition. The outputs will provide knowledge for developing novel methane recovery biotechnologies from waste to protect our ecosystem and conserve of our natural resources.

The student will conduct the system operation and analysis. The research includes the effect of conductive materials on the alleviation of sulphate inhibition on methanogenesis and strategies for improving system efficiency.

Living allowance (Stipend): €19,000 per annum [tax-exempt scholarship award]

University fees: €5,500 per annum. EU fees are covered by the grant; For non-EU students who are not in receipt of any other scholarship that supports the payment of full Non-EU fees are eligible to apply for the PhD International Merit Scholarship Scheme at University of Galway. If successful, this scholarship award reduces course fees from the full international level to EU level.

Start date: August 1st, 2023

Academic Entry Requirements:

- A master's degree or first-class honours B.E. in a relevant discipline (e.g., environmental engineering, environmental microbiology, or similar) with a good foundation in microbiology
- Adaptability, reliability, and the ability to work both independently and in a team



- Other requirements in University of Galway (Please see link for details [Entry Requirements - University of Galway](#)).

To Apply for the Scholarship:

Expressions of interest comprising submission of a covering letter, CV, statement of personal research interests, evidence of performance or equivalent and the contact details of two referees, to Dr. Guangxue Wu at guangxue.wu@universityofgalway.ie with the subject of 'PhD Application'.

Contact Name: Dr. Guangxue Wu

Contact Email: guangxue.wu@universityofgalway.ie

Application Deadline: 23/06/2023 and time 17:00 GMT

Primary Supervisor name: Dr. Guangxue Wu