POSTGRADUATE RESEARCH OPPORTUNITY

Project Title: Polymer Enhancement of Natural Mineral Layers Used in Waste Encapsulation

Project Description: This work is involving the enhancement of waste/contaminant encapsulation through polymer modification of soil. Clay liners are used for various environmental application ranging from landfill leachate liners to high level radioactive waste bunds. The work aims to optimize hydraulic performance of these barriers whilst providing mitigation against natural soil variability. The compatibility of the modified soil to harsh environments will be conducted. Investigation of the long term performance of the material through accelerated aging and through incipient long term testing will also be conducted.

This research opportunity is suited to range of students from backgrounds in areas such as Engineering and Science.

Duration of Project: 48 months

Funding Agency: AIT President’s Doctoral Scholarship

Type of Degree Offered: PhD

Minimum Qualifications/Experience Necessary/Any Other Requirements: Minimum classification of 2.1 honours in a related discipline or equivalent. IELTS [International English Testing System] Applicants must have a minimum of 6.0 with no component score less than 6.0. The candidate must be highly self-motivated and passionate about a career as a researcher.

Research Supervisors: Dr. Michael McLoughlin & Dr. Brian Mullarney

For further information please contact: mmcloughlin@ait.ie
Applications: Download Application Form at https://www.ait.ie/research-and-innovation/postgraduate-research-opportunities
Closing date for receipt of completed application forms is 5pm Friday 24th Jan 2020
Please submit your completed application:
By Email to: pro@ait.ie  or
By Post to: President Doctoral Scholarship Awards, Office of Research, Athlone Institute of Technology, Dublin Road, Athlone Co. Westmeath