Vice-Chancellor’s PhD Scholarships

**Disposable sEnsors for meTal detECTion (DETECT)**

## School of Human Sciences

Metals and metalloids are highly toxic pollutants that present significant health and environmental risks. These include arsenic, cadmium, chromium, copper, cobalt, iron, manganese, mercury, selenium, nickel, lead, and others, which are released into the environment through both natural and human activities. Water flowing through old city pipelines collect large levels of metal contaminants, it is one of the many examples of human activities.

This project focusses on developing a sustainable sensory system aimed for metal detection. It is an interdisciplinary project in collaboration with School of Computing at London Metropolitan University and with other university partners and chemical industry.

The candidate should have experience in material science/synthesis and electrochemistry. Prior experience working with an electrochemical workstation and on-screen printing/3D printing is highly desirable. Candidates should have ability to work independently, to plan and carry out complicated tasks, and to be a part of a dynamic research team. Good communication skills in both written and spoken English are expected.

The scholarships for the PhD degree are subject to academic approval.

For any informal enquiries about the project, please contact Dr Priyanka Ganguly (p.ganguly@londonmet.ac.uk).