

Job Description

Lecturer in Reality Capture for Geospatial Science

Department: Civil, Environmental & Geomatic Engineering

Grade: 8

Post reference: 1887671

Location: Bloomsbury campus, London

Reports to:

Dr Jan Boehm (Section Head, Geomatics)
Professor Jose Torero (Head of Department)

Context

We seek to appoint an outstanding and inspirational Lecturer in Reality Capture & Geospatial Science. This open-ended appointment will be based in the Geomatics section in UCL's Department of Civil, Environmental and Geomatic Engineering (CEGE).

The department is a multidisciplinary department with a long tradition of excellence in teaching and research. We currently hold the largest EPSRC research portfolio in civil engineering, with research projects and centres linking with industry leaders and reflecting a broad multidisciplinary view of the engineering world. CEGE is renowned for its strong commitment to the highest level of excellence in research and for its creative and innovative approach to engineering education, particularly given the department's emphasis on problem-based learning.

We seek to appoint an outstanding and inspirational candidate who will engage in research of international standing in Reality Capture and Geospatial Science. We are looking for individuals with ideas of modern platforms for surveying (UAV, robotic, vehicle, mobile ...) and a vision to integrate these with the future geospatial industry, digital twins and the metaverse.

The candidate appointed should have a doctorate degree and a proven track record of research in the areas of Reality Capture and the Geospatial Sciences. They should be able to demonstrate expertise in one or more methods of geospatial data capture, surveying and network adjustment and applying this to deriving digital representations of the real world. They should have an aptitude and an enthusiasm for teaching and supporting

students and be willing to engage in residential field courses.

The postholder will work closely with colleagues in the Geomatics section with world-leading expertise in spatial data capture and processing from space, air, land & sea, big geospatial data analytics & storage and machine learning. The Geomatics section currently has 12 academic staff and around 30 PhD students. The section is responsible for an innovative MSc in Geospatial Sciences with specialist routes in GIS & Computing, BIM & Surveying, and Hydrographic Surveying. This MSc is built from our long-established Surveying course which started over 70 years ago. The appointee will contribute to teaching in this MSc course and the undergraduate program in Civil Engineering.

The successful candidate is expected to take charge of undergraduate and postgraduate teaching in surveying and geospatial science, both through existing courses and by new course development. They should also play an active role in assisting with the administration of teaching and research in the department, as directed by the Head of Department.

We encourage those interested in the vacancy to get in contact with us for any clarifications or to discuss their application. Informal enquiries should be addressed to Dr Jan Boehm (j.boehm@ucl.ac.uk)

Closing Date: 20.11.2022

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