Research Associate Position in data driven surrogate modelling under uncertainty

The project

Applications are invited for a researcher to conduct data-driven modelling for 3d printing applications within the remit of the QuAID^3 project funded by the Hellenic Foundation for Research and Innovation. For the successful candidate this will provide an exciting opportunity to be part of delivering key technical advancements to the additive manufacturing sector that will advance knowledge of ultra-efficient fibre reinforced components build via 3d printing.

The successful candidate will join the Engineering Mechanics Research Group within the School of Civil Engineering as part of a team of researchers involved in computational mechanics across a wide range of project and application areas. The candidate will develop novel data-driven numerical models for the quantification of uncertainties and perform effect of defect analyses on fibre reinforced components. This may involve implementing artificial intelligence and machine learning algorithms to include effects such as fracture initiation and fracture propagation.

Requirements

Candidates must have a PhD in engineering, applied mathematics or a related subject area, with a major component in Artificial Intelligence and Machine Learning. Essential skills that the successful candidate will possess include: effective collaborative working in a multi-disciplinary environment; creative thinking and problem solving; and the ability to clearly communicate complex concepts to diverse audiences. Programming experience, a strong foundation in applied mathematics, machine learning and probability theory are all strongly desirable for this role.

Application procedure

This is a full-time, fixed-term post of 21 months. The position is open for EU nationals. Due to funding restrictions, applicants from countries outside the EU are eligible to apply provided they have already obtained a permit to work in Greece. The interested candidates should e-mail their CV directly to Dr. Savvas Triantafyllou at savtri@mail.ntua.gr. Short-listed candidates will be invited to attend an interview.

Application deadline

29th of February 2024