

# **PhD Student Position in data-driven computational mechanics**

## **The Project**

Applications are invited for a PhD student to conduct data-driven modelling for 3d printing applications within the remit of the QuAID<sup>3</sup> 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.

## **Entry Requirements**

Candidates must have a master's degree in engineering, applied mathematics or a related subject area. 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 and a keen zest for computational mechanics are strongly desirable for this role.

## **How to apply**

The interested candidates should e-mail their CV directly to Dr. Savvas Triantafyllou at [savtri@mail.ntua.gr](mailto:savtri@mail.ntua.gr). Short-listed candidates will be invited for interview. The successful candidate will then apply for a PhD at the School of Civil Engineering, National Technical University of Athens for the March 2024 intake.

## **Funding Notes**

This is a full-time position with funding available for 24 months and the potential to apply for additional funding at the end of the 24 month period. 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.

## **Application Deadline**

29<sup>th</sup> of February 2024