Role Description

Successful candidates will be hired to work as members of a research group at the department of Civil, Construction and Environmental Engineering, University of Alabama – Birmingham (UAB). The research will be focused inter-disciplinary topics such as:

(a) Development and characterization of innovative, sustainable and smart materials
(b) Development and investigation of smart infrastructural and structural systems
(c) Additive manufacturing
(d) Structural health monitoring using advanced technologies
(e) Development of decision-making systems

Qualifications

Candidates are expected to have a B.Sc./M.Sc. degree in one of the following fields: civil (structures), mechanical, material science, computer science or any other relevant engineering discipline.

A successful candidate should have a strong background in at least two of the following areas: mechanics, statics, numerical methods and experimental techniques.

The candidate should be comfortable with the use of programming and statistical languages such as: Fortran, C/C++, C#, Visual Basic, Torch, Java, G-Code, Python, MATLAB and R-language. Experience using parallel computing is preferred. Candidates with backgrounds in machine learning, finite element methods and manufacturing of materials/alloys/FRPs are encouraged to apply.

*Evidence of good research records such as: journal publications, conference papers and presentations, may outweigh the background of the candidates.

Interested candidates should email their application package with a subject line “Graduate Applicant” to Dr. Muhammad Sherif at msherif@uab.edu

The required documents are: curriculum vitae (education, awards/honors, GRE and TOEFL test scores, a list of journal/conference publications), copies of academic transcripts, and 3-5 professional references.