



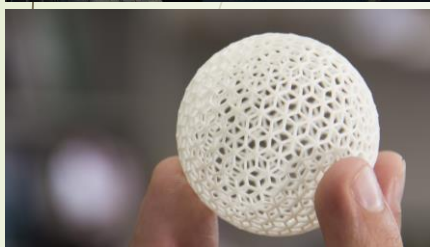
*Positions
Area*

**M.Sc./Ph.D. Graduate Assistants
Structural Engineering**



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:

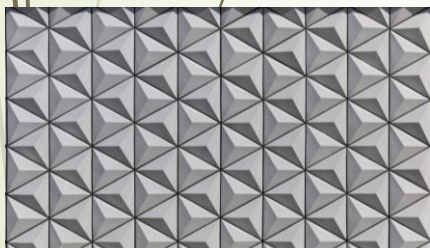


- (a) Development and characterization of innovative, sustainable and smart materials
- (b) Development and investigation of smart infrastructural and structural systems
- (c) Additive manufacturing
- (d) Structural health monitoring using advanced technologies
- (e) Development of decision-making systems



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.

