**NESAR UDDIN AHMED, Ph.D., P.E.**

Professor of Civil Engineering,

Department of Mechanical & Civil Engineering and Construction Management,

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**Education**

Ph.D. - Civil ( Structural) Engineering, Vanderbilt University, Nashville, TN, USA (1989),  
M.S. – Civil (Geotechnical) Engineering, Bangladesh University of Engineering and Technology(BUET),

Dhaka, Bangladesh (1984)  
B.S. – Civil Engineering, BUET, Dhaka, Bangladesh (1981)

**Appointments**

1996-Present Professor of Civil Engineering (Tenured), Alabama A & M University, Huntsville, AL

2016-2018 Program Coordinator (Head) of Civil Engineering Program, AAMU, Huntsville, AL

1993-1996 Associate Professor (Tenured), Alabama A & M University, Huntsville, AL,

1988-1993 Assistant Professor - Alabama A & M University, Huntsville, AL,

1992-Present **Engineering Consulting experience** (Part-time in Academic yr., Full-time in summer): Sami Engineering, Inc. (Structural Eng.), Huntsville, AL (17 yrs.), Engineering Design & Software, Inc., Decatur, AL (5 yrs.), Mesa Associates, Inc., **(**Eng. & Consultants), Madison, AL (1/2yr)

1985-1988 Research/Teaching Assistant**,** Summer School Instructor, Vanderbilt University, Nashville, TN.

1981-1984 Lecturer, Assistant Professor, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. Engineering Consultancy (Part-time): Bureau of Research, Testing& Consultation (BRTC), at Bangladesh Univ. of Engineering & Technology, Dhaka (3 yrs).

**Research interests**

Computational Solid Mechanics for Aero-Space Structural, *p*-Version FEM, Laminated Composites, delamination, Elasto-plastic Fracture, Fatigue, Thermo-Mechanical Modeling. Ground-improvement - Soil-stabilization by Lime and cement, dynamic compaction, Foundation on difficult soil-expansive soil and collapsible soil, Soil liquefaction. Earthquake Engineering & Seismic Design. Geofoam (EPS).

**Teaching Interests**Structural Steel Design, Reinforced Concrete Design, Foundation Design, CE Capstone Design Project, and basic subjects of Engineering general courses.

**Professional Memberships/Activities/Awards:**

* Professional Engineering (PE) License: Alabama, Tennessee, Texas, Louisiana, Mississippi, Florida, Georgia, South Carolina, North Carolina, Virginia, Ohio, Missouri, and California.
* Member, American Society of Civil Engineers (ASCE) (1988-present), AISC, IEB, BES, AEA/NEA
* Professor of the year Award, AAMU, 1993, Engineering Achievement Award, 2012, American Association of Bangladeshi Engineers and Architects (AABEA),USA.

**RESEARCH ACTIVITIES/AWARDS:** As a Principal Investigator (PI) and Co-Principal Investigator (Co-PI), Dr. Ahmed received $7.7M research grants/Awards, educational software, and Scholarships from different funding agencies are US Airforce, US Army, NASA, NSF.

**Selected Publications**

* **N. U. Ahmed** and P. K. Basu; "Higher Order Modeling of Plates by *p*-Version of Finite Element Method," *Journal of Engineering Mechanics Division,* American Society for Civil Engineers (ASCE),**119#6**, 1228-1242, June 1993.
* **N. U. Ahmed** and P. K. Basu; "Higher Order Finite Element Modeling of Laminated Composite Plates," *International* *Journal for Numerical Methods in Engineering,* **37**, 123-139, January 1994.
* Khushafati, W.H.; **Ahmed, N.U.**; Alim, M.A, "Review on the Potential Applications of Geofoam Material in Saudi Arabia for Highways and Building Construction" Journal of King Abdulaziz University: Engineering Science. 2015, Vol. 26, p23-47.