

Iqbal Husain , PhD
Director of the FREEDM
ABB Distinguished Professor
North Carolina State University

Iqbal Husain is the Director of the FREEDM NSF Engineering Center and the ABB Distinguished Professor in the department of Electrical & Computer Engineering at North Carolina State University, Raleigh, NC. He also serves as Director of the Advanced Transportation Energy Center at NC State. Prior to joining NC State, he was at the University of Akron where he built a successful power electronics and motor drives program. He was a visiting Professor at Oregon State University, Corvallis, OR in 2001. Dr. Husain's expertise is in the areas of power electronics, electric machines, motor drives, and system controls. He made unique contributions for the design and control of electric machines and drives through his modeling and analysis based research activities. In the FREEDM center, his research is focused on power electronics integration into power systems. He has also developed innovative graduate and undergraduate courses on electric and hybrid vehicles and published a textbook on the subject. Dr. Husain received the 2006 SAE Vincent Bendix Automotive Electronics Engineering Award, the 2004 College of Engineering Outstanding Researcher Award, the 2000 IEEE Third Millennium Medal and the 1998 IEEE-IAS Outstanding Young Member award. He became an IEEE Fellow in 2009. He was the Distinguished Lecturer of IEEE Industry Applications Society for 2012-13. He is the Editor-in-Chief of the IEEE Electrification Magazine.