

**DR. MOHAMMAD A. HUSSAIN***Professor, Dept. of Electrical and Computer Eng., King Abdulaziz University***Education**

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Biomedical Engineering	IIT Bombay	1994
MS	Biotechnology	AMU Aligarh	1988
BS	Chemistry	AMU Aligarh	1986

**Academic Experience**

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title</i> <i>(Chair, Full or</i> <i>Coordinator, etc.)</i>	<i>Part Time</i> <i>or</i> <i>Full Time</i>
2000	2001	Albert Einstein College of Medicine of Yeshiva University, Bronx, New York, USA	Visiting Scientist		Full Time
2001	2004	The Pennsylvania State University, Hershey, PA, USA	Postdoctoral Fellow		Full Time
2004	2005	University of Illinois at Chicago, IL, USA	Assist. Prof. (research)		Full Time
2005	2009	P.A. College of Engineering, Mangalore, Karnataka, India	Professor	Head of the Department	Full Time
2009	Date	King Abdulaziz University	Professor		Full Time

**Non Academic Experience** *(including Consultations)*

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position</i> <i>(Brief)</i>	<i>Description</i>	<i>Full or</i> <i>Part Time</i>
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**Funded Research Projects and Patents from the Past Five Years**

1. Project Number: 11-NAN1544-03 (KACST, KSA). Title: Synthesis and Characterization of Conductive Nanocomposites (enhanced Material) for Nanoengineered Bone Tissue Engineering (Role: PI)
2. Project Number: 8-NAN132-3 (KACST, KSA) Title: Fabrication and Characterization of GaN-based Nano-structure Devices (Role: Co-PI)
3. "Dynamic Interactions Between Single Biomolecules At Solid-liquid Interfaces: a Real-time Imaging and force Spectroscopy using Atomic force Microscope." (Role: PI)

**Certifications and Professional Registrations****Current Membership in Professional Societies and Organizations**

<i>Society/Organization</i>	<i>Rank</i>	<i>Member Since</i>
1. Saudi Scientific Society for Biomedical Engineering	Active Member	2011
2. Society for Biomaterials & Artificial Organs, India	Life Member	1997
3. Society for Biological Chemistry (SBC), Bangalore, India	Life Member	2007

### **Honors and Awards**

1. Science and Technology Agency (STA) Fellowship Awarded By Japan International Science and Technology Exchange Center (JISTEC) and Research and Development Corporation of Japan (JRDC).
2. Senior Research Associate Ship Awarded By The Council of Scientific and Industrial Research (CSIR), India
3. Young Muslim Scientist Award In Biological Sciences Awarded By The Muslim Association for The Advancement of Science (MAAS), Aligarh, India

### **Institutional and Professional Services** (*administration, committees, units, etc.*)

1. Contributed to M. Sc. Curriculum Development In Biomedical Engineering At KAU.
2. Member: ABET Committee, Electrical and Computer Eng. Dept., KAU, 2010-present
3. On Editorial Board “Trendz In Biotech” a ICBio Publication, Bangalore, India
4. On Editorial Board “European Journal of Medical Sciences”
5. Reviewer for The Journal of Artificial Organs, USA

### **Principal Publications/Presentations from the Past Five Years**

1. D. Banerjee, R. Adari, S. Sankaranarayan, A. Kumar, S. Ganguly, R. W. Aldhaferi, M. A. Hussain, A. S. Balamesh, and D. Saha (2013). Electrical Spin Injection using GaCrN in a GaN based Spin Light Emitting Diode, Applied Physics Letters, Vol. 103 (24), 1-4.
2. P. Khalid, M. A. Hussain, P. D. Rekha, and A. B. Arun (2013). Synthesis and Characterisation of Carbon Nanotubes Reinforced Hydroxyapatite Composite, INDJST, vol. 6 (12), 5546–5551.
3. P. Khalid, M. A. Hussain, P. D. Rekha, V. B. Suman, and A. B. Arun (2013). Modifications of Carbon Nanotubes for Bio-applications and Toxicity Evaluations, J. Environ. Nanotechnol., vol. 2 (1), 70-74.
4. T. Patil, N. Pande, R. Adari, P. Suggisetti, N. Raorane, S. Ganguly, R. W. Aldhaferi, M. A. Hussain, and D. Saha (2012). “Cl<sub>2</sub>/Ar Based Dry Etching of GaCrN using Inductively Coupled Plasma,” Journal of Nanoelectronics and Optoelectronics, vol. 7, 1-4.
5. A. Kamath, T. Patil, R. Adari, I. Bhattacharya, S. Ganguly, R. W. Aldhaferi, M. A. Hussain, and D. Saha (2012). Double Channel AlGa<sub>N</sub>/Ga<sub>N</sub> High Electron Mobility Transistor with Back Barriers. IEEE Electron Device Letters, vol. 33, no. 12, 1690-1692.
6. M. Anaul Kabir, Mohammad Asif Hussain and Zulfiqar Ahmad (2012). Candida Albican: a Model Organism for Studying Fungal Pathogens, ISRN Microbiology, vol. 2012, 1-15.
7. Smita Amarnath, Mohammad A. Hussain, Vidyanand Nanjundiah and A. K. Sood (2012). β-Galactosidase Leakage From Escherichia Coli Points To Mechanical Damage As Likely Cause of Carbon Nanotube Toxicity. Soft Nanoscience Letters, vol. 2, (3), 41-45.
8. Hussain M. A., Kabir M. A. and Sood A. K. (2009). On the Cytotoxicity of Carbon Nanotubes. Current Science. 96: 664-673.

### **Recent Professional Development Activities** (*Workshops, training, etc.*)

1. September 2013: IDEAL Workshop, Gloria Rogers, ABET Foundation, Held At King Abdulaziz University, Jeddah, Saudi Arabia.