



Biography

Dr. Mohammed Nazrul Islam Khan has been working as a Chief Scientific Officer at the Materials Science Division, Atomic Energy Centre, Dhaka. His main research focuses on nanotechnology and condensed matter physics. Dr. Khan has successfully stepped into other research sectors such as biomedical physics, chemistry, thin films and so on. His current research interests include the synthesis and study of the properties of nanomaterials for medical applications, the investigation of the structural, electrical and magnetic properties of soft ferrites, perovskites, ceramics and multiferroic materials, deposition and characterization of thin films for industrial applications, and microfabrication. Such a scholar like him was born in Shariatpur, Bangladesh in 1977. Dr. Khan has achieved "First Division" in both the Secondary School Certificate in 1991 and the Higher Secondary Certificate in 1993 from the Dhaka Board. After his under-graduation in Physics from National University in 2000, Dr. Khan has accomplished M.Sc. (Physics) in 2001 from the same university. He obtained first class in both formats. As he has a keen interest in science, he joined the Bangladesh Atomic Energy Commission as a Scientific Officer in 2003. This ingenious man acquired M. Phil. in 2007 in Physics from the Bangladesh University of Engineering and Technology (BUET). Besides his studies, he has executed his work with great precision and became Senior Scientific Officer in 2008. Then, he winged his way to Japan for higher studies and was awarded PhD degree in Engineering from Tohoku University, Japan in 2012. The Monbukagakusho scholarship, Japan for the period of 2009–2012 was awarded to him for his doctoral program because of his excellent performances. He joined Tohoku University as a Postdoctoral fellow for one year. He has a patent on Magnetoresistive device and magnetic device using CoFeB/L1o-ordered alloy bilayer; patented by the Government of Japan. After that, he returned to his motherland with the hope of encouraging others in their research. Till then, he is performing a tremendously excellent job in different research fields. As a token of appreciation for his work, the Bangladesh Academy of Science has awarded him the Gold Medal in 2013 and the Best Scientist Award in 2022 by the Bangladesh Atomic Energy Commission.

Dr. Khan is performing the honorable role of General Secretary in both the Bangladesh Physical Society and the Bangladesh Electronics and Informatics Society. Nevertheless, he is an Executive Member of the Bangladesh Crystallographic Association. He is also Life Member of the Bangladesh Medical Physics Association, Bangladesh Nuclear Medicine Association and Bangladesh Physics Teachers' Association.

Dr. Khan has attended conferences and workshops in different countries including USA, Germany, Japan, Korea, Taiwan, India etc., to enhance his knowledge and explore the beauty of science. He has served on many conference and workshop program committees and carried out his part with honesty and dignity as session chair and co-chair of various conferences. Dr. Khan is also a reviewer for a good number of peer-reviewed journals. He has supervised approximately 160 M.Sc., 20 M.Phil., and 12 PhD. theses with the collaboration of the University of Dhaka, Bangladesh University of Engineering and Technology (BUET), Chittagong University of Engineering and Technology (CUET), Khulna University of Engineering and Technology (KUET), Dhaka University of Engineering and Technology (DUET), University of Khulna, University of Chittagong, Comilla University, Islamic University of Kushtia, Jahangir Nagar University, Jagannath University, and more. He also serves on the Postdoctoral Academic Committee and Selection Board of different universities in Bangladesh.

More than 150 research articles in reputed peer-reviewed journals have been published by Dr. Khan. He and his collaborators have presented around 400 articles at different national and international conferences. He, accompanied with his collaborator, is working day and night to help those who are interested in science and research for the greater success of Bangladesh.