



Department of Electrical and Electronic Engineering  
Khulna University of Engineering & Technology  
Khulna - 9203, Tel:041-769471 (191); Fax :041-774403



**Dr. Md. Sherajul Islam**

Professor

**Research Area** Nanoenergy, Growth and Characterization of 2D Materials, Quantum Materials, Nanomaterials Physics, Photovoltaics, Perovskite Materials and Their Devices, III-V Nitride Semiconductor and Their Devices

## Biography

Dr. Md. Sherajul Islam is a Professor in the Department of Electrical and Electronic Engineering at the Khulna university of Engineering & Technology where he has been a faculty member since 2007, with an expertise in computational materials engineering. He received his Ph.D. in Electrical Engineering from the University of Fukui in 2014. He is a recipient of Monbukagakshu(MEXT) scholarship by Japan Government and Presidential International Fellowship Initiative (PIFI) Award. His research group focuses on atomistic modeling of nanomaterials using density functional theory, molecular dynamics, and machine learning. His group has contributed significantly to the design and development of novel nanomaterials for nanoelectronic, energy, and quantum information science applications. He has authored more than 125 peer-reviewed publications in esteemed journals and international conferences. He is a member of IEEE and IEB, and actively participates in journal paper and grant reviewing at the international level.

For more details please visit my [personal webpage](#)

## Education

### PhD

University of Fukui, Japan (2011-2014)

**Thesis Title:** [Vibrational Properties of Disordered Graphene and Related 2D Materials](#)

### M. Sc.

Khulna University of Engineering & Technology, Bangladesh (2007-2009)

**Thesis Title:** [InN Based Heterojunction Field Effect Transistor](#)

### B. Sc. Engg.

Rajshahi University of Engineering & Technology, Bangladesh (2002-2007)

## Service Records

- **Research Scientist (Offsite)**  
**Department/Section:** Wright Patterson Airforce Base  
**Air Force Research Laboratory, Dayton, OH USA** From 2022-09-17 00:00:00 to 2024-09-17 00:00:00
- **Research Faculty**  
**Department/Section:** Electrical & Biomedical Engineering  
**University of Nevada Reno, USA** From 2021-06-01 00:00:00 to 2022-05-31 06:00:00
- **Professor**  
**Department/Section:** Electrical & Electronic Engineering  
**Khulna University of Engineering & Technology** From to
- **Associate Professor**  
**Department/Section:** Electrical & Electronic Engineering  
**Khulna University of Engineering & Technology** From to
- **Lecturer (Part time)**  
**Department/Section:** Electrical & Electronic Engineering  
**Rajshahi University of Engineering & Technology** From to
- **Lecturer**  
**Department/Section:** Electrical & Electronic Engineering  
**Khulna University of Engineering & Technology** From to
- **Assistant Professor**  
**Department/Section:** Electrical & Electronic Engineering  
**Khulna University of Engineering & Technology** From to

## Research Interest

**Nanoenergy, Growth and Characterization of 2D Materials, Quantum Materials, Nanomaterials Physics, Photovoltaics, Perovskite Materials and Their Devices, III-V Nitride Semiconductor and Their Devices**

## Publication

### Books

1, "2D-Materials Based Composite Layer SPR Biosensors", **2D-Materials Based Composite Layer SPR Biosensors**, ISBN:978-620-3-46489-4, Lap Lambert Academic Publishing, Germany, 2021.

## Publication

## Books

2, "Thermal Transport in Stanene/2D-SiC Van Der Waals Heterostructure", ***Thermal Transport in Stanene/2D-SiC Van Der Waals Heterostructure***, ISBN:978-620-3-02997-0, Lap Lambert Academic Publishing, Germany, 2020 .