



Department of Electrical and Electronic Engineering  
Khulna University of Engineering & Technology  
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## Biography

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### Md. Sakib Hasan Khan

Assistant Professor

**Research Area** Solar-Reforming

Computational Condensed Matter

Photocatalytic Water Splitting Sensing in

Nano-structured Materials

## Education

### PhD in Nanomaterial Engineering

Australian National University (ANU), Australia (August, 2024-Ongoing)

### M.Sc. in Electrical and Electronic Engineering

Khulna University of Engineering & Technology, Bangladesh (July-2018-2020)

**Thesis Title:** [Investigation of Optoelectronic Properties of Two Dimensional GaN and its Nanotube](#)

### B. Sc in Electrical and Electronic Engineering

Khulna University of Engineering & Technology, Bangladesh. (24 April, 2014-2018), Bangladesh ( ) Group: Electrical and Electronic Engineering, Student Type: Regular, Merit Position: 2nd, Achievement: Deans Award

### Higher Secondary Certificate

Cantonment College, Bangladesh, 2013 ( ) Group: Science, Student Type: Regular, Achievement: Jessore Board Scholarship

### Secondary School Certificate

Daud Public School, Bangladesh, 2011 ( ) Group: Science, Student Type: Regular, Achievement: Jessore Board Scholarship

## Service Records

- **Assistant Professor**  
**Department/Section:** Electrical and Electronic Engineering (EEE)  
**Khulna University of Engineering & Technology (KUET)** *From to*
- **Lecturer**  
**Department/Section:** Electrical and Electronic Engineering (EEE)  
**Khulna University of Engineering & Technology** *From to*

## Research Interest

### Solar-Reforming

### Computational Condensed Matter

Revealing of structural, electronic and optical properties of condensed materials from bulk to nano, and from inorganic to organic from first-principles

### Photocatalytic Water Splitting

Exploring novel potent nanostructured photocatalysts for Hydrogen fuel production using First-principles

### Sensing in Nano-structured Materials

Unveiling the surface chemistry of nanostructured material from first-principles for toxic gas sensing, biomolecule sensing and CO<sub>2</sub> reduction