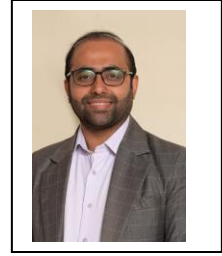


## **Dr. Mohsin Saleem**

**Associate Professor**  
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Dr. Mohsin Saleem specializes in bridging **materials research and industrial application** through consultancy, testing, and collaborative R&D. His **multidisciplinary expertise** enables industries to enhance product reliability, optimize material performance, and ensure compliance with global standards.

### **Areas of Expertise**

- Advanced materials design and processing (metals, ceramics, polymers, composites)
- Corrosion science and protection (electrochemical testing, coatings, inhibitors, surface engineering)
- Energy materials (battery electrodes/electrolytes, fuel-cell/BOP components, catalysts)
- Additive manufacturing & thin film/coating technologies (PVD, CVD, PECVD, thermal spray)
- Failure analysis and reliability (fractography, root-cause analysis, life prediction)
- Multiscale characterization (XRD, SEM/EDS, EBSD, TEM liaison, AFM, Raman/FTIR, TGA/DSC)
- Mineral processing and characterization

### **Consultancy & Research Capabilities**

- Advanced multiscale materials characterization and surface analysis
- Mineral processing and microstructural evaluation
- Corrosion assessment and coating performance studies
- Material failure investigation and root-cause analysis

### **Potential Areas for Future Consultancy**

- Development of piezoelectric materials for industrial and sensing applications

- Design and optimization of energy storage devices (batteries, supercapacitors)
- Implementation of **ISO 9000 series** compliance for manufacturing quality and sustainability standards

### **Collaboration & Industry Linkages**

#### **Existing Partnerships:**

- Strategic Organizations
- National Logistics Corporation (NLC)
- Steel Industry
- Small and Medium Enterprises (SMEs)

#### **Preferred Modes of Engagement:**

- Joint R&D projects
- Testing and analytical services
- Industrial training and capability development