

Hind Al Amri

Chemical Engineer

✉ alamrihind1999@gmail.com ☎ 0555228453 📍 Abha, (Ready to Relocate) 🌐 Hind Al Amri

SUMMARY

Chemical Engineer and PhD researcher specializing in energy storage and advanced materials, with 3 years of research experience in solid-state batteries and polymer electrolytes. The first female researcher in solid-state batteries at King Khalid University, with experience in materials characterization, electrochemical analysis, scientific research, innovation, and project management, as well as scientific publications and international conference presentations.

PROFESSIONAL EXPERIENCE

Lecturer

06/2025 – 06/2026

King Khalid University

- Delivered a full teaching load of 16 hours per week, teaching Materials Science, Thermodynamics, and Design Thinking to undergraduate engineering students.
- Designed course materials, assessments, and learning activities to support student achievement and course objectives.
- Evaluated student performance through assignments, quizzes, projects, and examinations.
- Participated in academic quality assurance and departmental development activities.

Researcher / Volunteer Research Assistant

03/2025 – Present

King Khalid University

Battery Laboratory

- Conducted research on solid-state batteries and polymer electrolytes.
- Performed laboratory testing, chemical analysis, and materials characterization using EIS, FTIR, XRD, SEM, and TGA.
- Prepared technical laboratory reports and analyzed experimental data to support research outcomes and scientific publications.
- Maintained laboratory safety procedures and ensured compliance with laboratory protocols during experimental work.
- Assisted in battery fabrication and performance evaluation.

PhD Researcher & Laboratory Technician

06/2026 – Present

King Khalid University – Central Laboratories

- Conducting doctoral research in energy storage and advanced materials, with a focus on solid-state battery technologies.
- Developing and characterizing advanced materials for next-generation energy storage systems.

EDUCATION

Master of Science in Chemical Engineering

2022 – 2025

King Khalid University

Abha

First graduate of the MSc in Chemical Engineering program.

Bachelor of Science in Chemistry

2017 – 2021

University of Bisha

Al Namas

Excellent with First-Class Honors

PhD in Chemical Engineering

06/2026 – Present

King Khalid University

Abha

CERTIFICATES

- **Certified Associate in Project Management (CAPM)**

Project Management Institute (PMI) 2026

- **Certified Innovation Professional (CInP)**

Global Innovation Institute (GInI) 2026

COURSES

- Scientific Research Development Course
- Project Management Course
- OriginLab Software Training
- Excel Fundamentals Training Course
- Introduction to MATLAB

ORGANISATIONS

- | | |
|---|----------------|
| Association of Energy and Electrical Engineering (AEEE)
<i>Member</i> | 2026 – Present |
| American Institute of Chemical Engineers (AIChE)
<i>Member</i> | 2024 – Present |

PUBLICATIONS & CONFERENCES

Development of a Novel Metal-Gelatine-Infused Polyaniline Solid Electrolyte for Room-Temperature Na-S Batteries

Journal of The Electrochemical Society (ECS)

Accepted for Publication, 2026

25th WPC Energy Congress 2026

Poster Presentation – Novel Solid-State Polymer-Based Electrolyte for Room-Temperature Sodium-Sulfur Batteries

The Electrochemical Society (ECS) Conference 2025

Oral Presentation – Novel PANI-PEG Composite Solid Electrolytes for High-Performance Room-Temperature Sodium-Sulfur Batteries

AIChE Annual Meeting 2025

Oral Presentation – Development of Novel PANI-PEG-Based Composite Solid Electrolytes for Room-Temperature Solid-State Sodium-Sulfur Batteries

AIChE Conference 2024

Oral Presentation – Novel Solid-State Polymer-Based Electrolyte for Room-Temperature Lithium-Sulfur Batteries

10th Jordan International Chemical Engineering Conference (JIChEC10), 2024

Oral Presentation – Novel Solid-State Polymer-Based Electrolyte for Room-Temperature Sodium-Sulfur Batteries

VOLUNTER EXPERIENCE

Volunteer Research Assistant

Battery Laboratory, King Khalid University | 2025–Present

Volunteer Member

Sawaed Volunteer Association | 2025

100+ volunteer hours in research, educational, and community initiatives.

TECHNICAL SKILLS

- Electrochemical Impedance Spectroscopy (EIS)
- Fourier Transform Infrared Spectroscopy (FTIR)
- X-ray Diffraction (XRD)
- Scanning Electron Microscopy (SEM)
- Thermogravimetric Analysis (TGA)
- BET Surface Area Analysis
- Battery Assembly
- Battery Performance Testing
- Data Analysis