

SHAHNA K G

Chemical Engineer

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Qualified Chemical Engineer with a B.Tech degree and one year of professional experience as a Technical Assistant at NIT Calicut. Strong academic background with a 9.62 CGPA in Diploma and a B.Tech from GEC Kozhikode.



Professional Experience

Technical Assistant | NIT Calicut | July 2024 – July 2025

- Managed Chemical Engineering laboratories and provided technical instruction to students.
- Calibrated and maintained specialized lab equipment; ensured 100% safety compliance.
- Assisted faculty in research data collection and experimental troubleshooting.

Education

- **B.Tech in Chemical Engineering** (7.66 CGPA) | GEC Kozhikode | 2024
- **Diploma in Chemical Engineering** (9.62 CGPA) | Govt. Polytechnic | 2021
- **Higher Secondary (Plus Two)** (87.4%) | Pavandoor HSS | 2018
- **SSLC** (98%) | Pavandoor HSS | 2016

Projects and Seminars

- **B.Tech Project:** Developed eco-friendly building blocks using Red Gypsum industrial waste; tested compressive strength using UTM.
- **B.Tech Seminar:** Research on Divided Wall Column (DWC) distillation for 30% energy savings in process intensification.
- **Diploma Project:** Fabricated a hydrophobic sponge for environmental oil spill absorption.
- **Diploma seminar:** Phytoremediation

Industrial Training

- **FACT (The Fertilizers & Chemicals Travancore Ltd):** Studied Sulfuric Acid and Ammonium Phosphate manufacturing processes and industrial-scale fluid handling.
- **CIPET (Central Institute of Petrochemical Engineering):** Hands-on exposure to Injection Molding, Extrusion, and Polymer testing (MFI, Tensile).

Skills

- **Software Proficiency:** DWSIM (Process Simulation), AutoCAD Software, MS Office.
- **Technical Skills:** Material Characterization, Mechanical Testing (UTM), Sieve Analysis, and Process Control Strategy.
- **Soft Skills:** Technical Presentation, Curriculum Support, Student Mentoring, and Organized Communication. Safety and inventory management

Certification and Awards

- Principles & Practices of Process Equipment & Plant Design | NPTEL- IIT Kharagpur
- Fluid Flow Operations | NPTEL – IIT Guwahati
- Development & Application of Special Concretes | NPTEL – IIT Kanpur
- Mahindra All India Talent Scholarship Award (2018)

Languages

- English (Fluent)
- Malayalam (Proficient)
- Hindi