

# SERENA CABRAL

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Energy enthusiast with hands-on experience in Sustainable Technologies and Chemistry, eager to propel innovation in the Renewable Energy Sector. Looking to serve the organisation with the best of my abilities and to enhance my skills in order to contribute to the success and growth of the company.

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## SKILLS

ASPEN	C Language	ERP Systems	MATLAB	Stack Monitoring
AutoCAD	SQL	C++	Excel	Effluent Monitoring

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## PROFESSIONAL EXPERIENCE

### Travancore Cochin Chemicals Ltd.

August 2024- Current

#### Apprentice

- Apprentice in the Projects and Environment department.
- Environmental monitoring activities including effluent monitoring, stack emission monitoring, verifying healthiness of online continuous effluent, emission monitoring and its transmission to state/ Central Pollution Control Board and related documentation.
- Actively contributed to new projects, including the installation of a Chlorine Recuperator at the HCl plant where I was responsible for producing design drawings for the recuperator.
- Actively contributed to sludge waste project where trial phase of bricks made with sludge took place for commercial use.
- ISO reports

### Khuff General Trading and Contracting Co.

June 2023- August 2024

#### Intern

- Conducted tender reviews and prepared quotations.
- Communicated with clients and principals regarding projects.
- Released orders and managed corresponding documentation.
- Proficient in working with ERP systems and Excel for data management and analysis.
- Conducted business developments activities to identify new clients aligning with criteria set forth as per client requirement.

### Kuwait Oil Company

June 2022- July 2022

#### Intern

- Internship at the Internal Corrosion Monitoring Laboratory at the Corrosion and Inspection Department at Kuwait Oil Company.
  - Internship was focused on core chemistry and real life applications of chemical processes.
  - Primary task involved daily inspection of oil samples for multiple parameters.
  - Acquired skills in oil sample analysis, bacterial culturing, metallurgy and other technical and laboratory skills.
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## ACADEMIC PROJECTS

### RESEARCH PROJECT

February 2023- May 2023

#### Exploring Synergistic Factors in Solar Energy Assisted Bio-digestion

- Led a project focused on integrating solar energy with anaerobic digestion for sustainable organic waste management.
  - Introduced ultrasonication and optimized stirring techniques to enhance methane yield and reactor efficiency.
  - Currently preparing a paper detailing project findings for publication.
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## EDUCATION

Manipal Institute of Technology, Manipal, Karnataka

July 2019- June 2023

Bachelor of Technology in Chemical Engineering