



Contact Details

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Location: Oulu

Nationality: Indian

Education

UNIVERSITY OF OULU, OULU, FINLAND

Master of Science

(Environmental Engineering)

90/120 ECTS completed

9/2023–6/2025 (estimate)

Major: Sustainable Energy Systems

SRI VENKATESWARA UNIVERSITY, INDIA

Bachelor of Science

(Chemical Engineering)

9/2018–6/2022

Thesis: Experimental study on transesterification reaction for biodiesel production

Saranya Patankar

Master's Student in Environmental Engineering

Summary

I am a Master's degree student in Environmental Engineering specializing in Sustainable Energy Systems. Currently I am seeking thesis job opportunities in my field. I have gained experience in energy auditing, carbon footprint calculation and renewable energy planning. I am passionate about advancing sustainability by integrating smart systems and renewable energy solutions to address climate change.

Work Experience

Research Trainee

Research Unit Y, Oulu, Finland

5/2024–9/2024

- Conducted life cycle assessments (LCA) and environmental impact assessments (EIA) of hydrogen production pathways.
- Calculated the carbon footprint of hydrogen infrastructure.
- Reviewed literature on hydrogen production technologies.

Junior Energy Engineer

Sustainergy Innovations Pvt. Ltd., India

6/2022–4/2023

- Assisted in performing energy efficiency calculations for industrial processes, contributing to the optimization of energy usage in key sectors.
- Supported mandatory energy audits for commercial buildings and industrial sites, ensuring compliance with energy regulations and identifying areas for improvement.
- Conducted case study analyses, providing data-driven insights to inform decision-making for energy savings projects.
- Collaborated with senior engineers on ESCO projects, helping to supervise project implementation and monitor energy performance.

Certifications

- Course on polymer reaction kinetics
- Course on nano materials and their properties

Hobbies

- Content creation and blogging about environment
- Reading and writing
- Canoeing and rowing
- Cooking with friends

Voluntary Work

Volunteer in Nature Conservation Projects

OLSY & Oulu City
6/2024–7/2024

- Participated in community-led efforts to remove the invasive Himalayan balsam from public areas to protect native biodiversity.
- Participated in water body clean-up initiatives and efforts.

Intern

EcoSphere Solutions Pvt. Ltd., India
9/2021–3/2022

- Conducted studies on process waste in chemical industries, helping to identify key inefficiencies and environmental impacts.
- Analyzed industrial pollution data to assess its effects on local ecosystems, contributing to environmental risk evaluations.
- Reviewed case studies of industrial accidents, providing insights on environmental safety and prevention strategies for future projects.

Skills

Expertise

- Smart grids
- Renewable energy integration
- LCA tools (ISO14044, 14040)
- Energy efficiency
- Energy system engineering
- Energy harvesting
- Energy economics

IT Skills

- SPSS: Basics
- MATLAB: Basics
- MS Office: Excellent
- Sima-Pro: Excellent
- Energy plan: Basics
- Homer: Excellent
- C language: Basics

Language Skills

- English: Fluent
- Finnish: Basics

References

References available upon request.