

Amina Patel

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SUMMARY

Detail-oriented and motivated Entry Level Chemical Engineer with a solid foundation in chemical processes and material science. Proven ability to optimize processes and improve efficiency through analytical and problem-solving skills.

EXPERIENCE

Chemical Engineering Intern

Jun 2022 - Aug 2022

ChemTech Solutions, San Francisco, CA

- Assisted in the design and optimization of a chemical separation process, resulting in a 15% reduction in waste generation.
- Conducted experiments that improved yield by 10% for a key product line, contributing to an estimated \$50,000 increase in annual revenue.
- Utilized Aspen Plus for process simulation and modeling, enhancing understanding of chemical reaction kinetics.

Laboratory Assistant

Sept 2021 - May 2022

University Research Lab, City, State

- Supported research projects focused on sustainable materials, leading to a publication in a peer-reviewed journal.
- Conducted material tests and data analysis using MATLAB, increasing lab efficiency by 20%.
- Maintained laboratory equipment and ensured compliance with safety protocols.

Summer Research Intern

May 2021 - Aug 2021

GreenChem Innovations, City, State

- Collaborated on the development of eco-friendly solvents that reduced environmental impact by 30%.
- Participated in process scale-up trials, assisting in the transition from lab-scale to pilot-scale production.
- Gained hands-on experience with chromatography and spectroscopy techniques for compound analysis.

EDUCATION

Bachelor of Science in Chemical Engineering

May 2022

Stanford University, Stanford, CA • GPA: 3.7

SKILLS

Technical Skills: Process Design, Material Science, Chemical Reaction Engineering, Safety and Compliance Standards

Tools & Frameworks: Aspen Plus, MATLAB, AutoCAD, SPSS