

Aisha Patel

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SUMMARY

Detail-oriented Chemical Engineer with over 5 years of experience in process optimization and project management. Proven track record of enhancing production efficiency by implementing innovative solutions and conducting thorough analyses.

EXPERIENCE

Process Engineer

Jan 2022 - Present

ChemTech Industries, Houston, TX

- Led a project that improved yield by 15%, resulting in annual savings of \$200,000.
- Developed and implemented a new process simulation model using Aspen Plus, reducing project design time by 30%.
- Collaborated with cross-functional teams to optimize chemical processes, increasing throughput by 20%.

Chemical Engineer

Jun 2018 - Dec 2021

Green Solutions Corp., Austin, TX

- Spearheaded a waste reduction initiative that decreased chemical waste by 25%, earning the company a sustainability award.
- Conducted feasibility studies for new product lines, resulting in a successful launch that generated \$500,000 in the first year.
- Utilized Six Sigma methodologies to enhance process reliability and reduce variability, leading to a 10% decrease in production costs.

Junior Chemical Engineer

May 2016 - May 2018

Innovative Chemicals Inc., Dallas, TX

- Assisted in scaling up laboratory processes to pilot plant scale, achieving successful transfer with less than 5% variability.
- Participated in safety audits and process hazard analysis, contributing to a 15% improvement in safety compliance.
- Supported R&D in developing new formulations, leading to two patented processes.

EDUCATION

Bachelor of Science in Chemical Engineering

May 2018

University of Texas at Austin, Austin, TX • GPA: 3.7

SKILLS

Technical Skills: Process Simulation, Data Analysis, Chemical Process Design, Project Management

Tools & Frameworks: Aspen Plus, MATLAB, AutoCAD, Six Sigma