




CHEMICAL ENGINEER RESUME


Sample by Resume Genius

Contact

(617) 519-3379 

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Cambridge, MA 

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Education

(May 2018)

BS in Chemical Engineering,

3.8 GPA, Magna cum laude

MASSACHUSETTS INSTITUTE OF
TECHNOLOGY
– Cambridge, MA

Key Skills

Computer aided design (CAD)
software



Collaboration



Deductive reasoning



Complex problem solving



Mathematics



MATLAB programming



Awards

(May 2018)

PD2M STUDENT AWARD/AIChE

Profile

Investigative, curious, and driven Chemical Engineer with 4+ years' experience within energy and infrastructure sectors, with a passion for environmental sustainability and social responsibility. Manage budgets of \$500M+, designing complex solutions in collaboration with cross-functional teams to transform process management efficiency. Leveraged knowledge of chemical composition, production techniques, and disposal methods acquired through undergraduate studies to secure coveted award from AIChE.

Professional Experience

CHEMICAL ENGINEER

BP – Cambridge, MA

SEP 2020

– Present

- Liaise with process chemists and design engineers to maintain 95% plant output levels
- Ensure <5% margin of error in plant and equipment configuration, delivering compliance with internal and external safety and environmental regulations
- Analyze data in MATLAB to create predictive maintenance systems for effective problem-solving
- Support junior chemical engineers to build practical knowledge of applications of chemical processes and production techniques
- Accountable for \$350M project to deliver specialized, engineered solutions to advance environmental sustainability within the plant
- Identify and resolve operational issues to maintain standard operating procedures and ensure project success

CHEMICAL ENGINEER

BASF – Cambridge, MA

JUN 2018

– AUG 2020

- Supported the lead process engineer to develop process design basis, material balance, and process flow diagrams
- Met 4-month project deadline by designing piping and instrumentation diagrams, project lists, and datasheets
- Delivered laboratory, bench, pilot, and full-scale test programs
- Acquired knowledge in emerging areas such as carbon capture, long-duration energy storage, and alternative fuels
- Reduced industrial air pollution in factory by 27% through implementing petroleum-refining techniques
- Troubleshoot problems within chemical manufacturing processes to save \$200K in operating costs