

# Sydney Foster

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## Summary:

Senior chemical engineering student looking for an internship or full-time.

## Education:

University of Massachusetts Amherst, Amherst, MA

Bachelor of Science in Chemical Engineering

Anticipated May 2017

GPA: 3.00

John and Abigail Adams Scholarship

Deans Scholarship

## Relevant Classes:

Honors Chemistry I, II, Chemical Engineering: Principles of Biological Systems, Mathematical Modeling, Reactor Kinetics & Design, Physical Chemistry, Fluid Dynamics  
Organic Chemistry I, II, Differential Equations, Thermodynamics I, II, Separations  
Heat and Mass Transfer, Introduction to Polymer Science, Reactor Design, Reactor Controls

## Work Experience:

### University of Massachusetts, Amherst, MA:

Chemical Engineering, Fan Lab Researcher

Summer 2015-Current

- Senior Thesis
- Studied zeolite synthesis
- Kept detailed lab book of synthesis procedures
- Performed XRD analysis of powdered samples
- Developed a novel and inexpensive synthesis method (patent pending)

Chemistry Department, Lab Technician

Fall 2013- Spring 2015

- Worked in on-campus general chemistry labs
- Prepared large quantities of solutions for acid base and synthesis reactions
- Kept track of chemical inventory

## Skills:

- Team work
- Compartmentalize and prioritize parts of a problem
- Record keeping for reproducibility
- Project planning
- Public speaking/ Presenting work
- Aspen, MATLAB & Simulink, Excel

## Other:

- Member of the UMass chapter of the American Institute of Chemical Engineers.
- Lean Six Sigma Yellow Belt Certified