

Cara Smalley

Laboratory Teaching Assistant for Second-Year Chemical Engineering Courses

Burlington, NJ - Email me on Indeed: [indeed.com/r/Cara-Smalley/9b104bc9648cc1f6](https://www.indeed.com/r/Cara-Smalley/9b104bc9648cc1f6)

WORK EXPERIENCE

Laboratory Teaching Assistant for Second-Year Chemical Engineering Courses

Unit Operations laboratory - January 2014 to May 2014

Assisting Fluid Mechanics and Thermodynamic experiments in the Unit Operations laboratory

Senior Design Project

- August 2013 to May 2014

Development of steady-state design and plant-wide control scheme for a styrene production plant

- Economic optimization, economic forecasting, HAZOP safety analysis

Recruitment Counselor Coordinator, Panhellenic Executive Board

- May 2013 to May 2014

Liaison between Panhellenic and 25 RC's, educating and mentoring potential new members through recruitment

Intern

The Linde Group - Murray Hill, NJ - June 2013 to August 2013

Commercial projects such as budget proposals, financial assessments of various sites, analysis of customer contracts

Teaching Assistant

Chemical Engineering Thermodynamics - Bethlehem, PA - January 2013 to May 2013

Assisting second-year chemical engineering students with the Thermodynamics material and homework

Academic Achievement Chair

Zeta Tau Alpha - Bethlehem, PA - December 2012 to May 2013

Creating programs to promote intellectual development and improving academic resources

Secretary

Engineers without Borders - Bethlehem, PA - May 2012 to May 2013

Travel team member

Engineers without Borders - Bethlehem, PA - September 2010 to May 2013

Bethlehem, PA September 2010 to May 2013

- Water sanitation project aimed to deliver clean water to small town of La Fragosa, Honduras: Involves technical planning, fundraising, and effective communication with the town. Engineering designs and decisions must be made collectively and submitted for approval on all projects.
- Travel team member to Honduras, May 2012: Obtained soil & water samples, GPS points, spoke with La Fragosa

Accreditation Chair

Zeta Tau Alpha - Bethlehem, PA - October 2012 to April 2013

Preparing a 100+ page document and presenting for Lehigh University's Greek accreditation process in April
• Chapter received highest recognition as a Gold chapter

Undergraduate Research Intern

Universiti Teknologi Petronas - June 2012 to July 2012

6 week project as an undergraduate intern, researching and synthesizing various polyionic liquids. Training on COSMO-RS and laboratory equipment. Attendance at a world engineering conference.

President

Residence Hall Council of Sayre Park - Bethlehem, PA - October 2011 to May 2012

Organizing programs for residence hall community, recipient of Residence Hall Council of the Year

Senior Capstone

Engineers without Borders - 上海市 - 2011 to January 2011

project involved working with Lutheran Children and Family Service Refugee Resettlement and producing a documentary on the program

Campus Involvement

EDUCATION

B.S. in Chemical Engineering

Lehigh University - Bethlehem, PA

May 2014