

Anna Baer

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AB

Objective

Seeking an opportunity as an associate scientist with a company that has an innovative, enthusiastic, and collaborative work environment.

Experience

RESEARCH INTERN

June 2012-August 2012

National Renewable Energy Laboratory, Golden, CO
U.S. Department of Energy

- Tested operating conditions for the production of hydrocarbons via catalytic pyrolysis.
- Spent time troubleshooting pyroprobe conditions prior to planned experimentation.
- Attended weekly development sessions to broaden understanding of the renewables industry.
- Produced deliverables for the DOE's Science Undergraduate Laboratory Internship program.

RESEARCH INTERN

June 2009-August 2009

Pathology Department
University of California at San Francisco

- Performed ELISAs looking for evidence of biomarkers in blood serum that could make early predictions of breast cancer invasiveness.
- Processed tissue samples for researchers.
- Readily and safely transported fresh blood samples from medical facilities on one campus to research facilities at another in order to enlarge the serum sample cohort.

Projects

Senior Design Capstone Project with ExxonMobil
Coker Gas Plant Design and Economic Analysis

January 2013-May 2013

- Designed gas plant within a larger refinery that processes the gas produced by a coking unit
- Produced PFDs; completed full simulation; and performed an economic analysis
- Simulated with AspenHYSYS®
- Design included: sweetening, dehydration, and fractionation

Chemical Engineering Mini-Design Project
Vinyl Chloride Monomer Process Plant

October 2012-December 2012

- Designed and simulated using Aspen Plus® and Aspen Energy Analyzer®
- Design included: Heat Exchangers, Reactors, Pumps, Distillation Columns, and 3-Phase Separator
- Produced PFDs and delivered full report with an economic evaluation of final plant design

Education

University of Colorado at Boulder

August 2008-May 2013

- Bachelor of Science, Chemical Engineering
- Chemistry and Biochemistry Minors
- Volunteered with TEAMS (Tomorrow's Engineers: creAte, iMagine, Succeed.)
- Proficient in engineering software including AspenHYSYS®, Aspen Plus®, Visual Basic®, Visio®, and Microsoft Office®
- International Engineering Emphasis

Universidad de Belgrano, Buenos Aires, Argentina

August 2010-December 2010

- Spanish Language Study Abroad Program
- 16-Credit Intensive Spanish Course

Recognition

- Research from National Renewable Energy Laboratory Presented at TCBIomass 2013 Conference
- Iisa, K., Stanton, A., Baer, A., French, R., Czernik, S., Light Hydrocarbons as Hydrogen Transfer Agents for Catalytic Pyrolysis, TCBIomass 2013, Chicago, IL, September 3-6, 2013.
- Chancellor's Achievement Scholarship