

Daphne Lofton

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OBJECTIVE

To obtain a job as a chemical engineer that will allow me to contribute my leadership, interpersonal, and problem-solving skills.

EDUCATION

North Carolina State University, Raleigh, NC

Bachelor of Science in Chemical and Biomolecular Engineering, May 2011

GPA: 3.12/4.00

EXPERIENCE

Novozymes, Franklinton, NC

Co-op Student, 40hrs/wk

Fermentation Department

May 2010 to Aug. 2010

Analyzed data statistically to quantify effects of process upsets affecting downstream processing. Conclusive upsets were further looked into through pilot-scale experimentation. Estimated process variation for major products. Correlated physical measurements on fermentation broth with performance in recovery.

Environmental Operations

Aug. 2009 to Dec. 2009

Participated in site-wide improvements for environmental performance. Responsible for pilot-scale Reverse Osmosis (RO) experiments to determine if RO could be used as part of the wastewater treatment technologies on site. Led to future planning of large scale experimentation. Performed PolyTox Testing to determine site-wide spill limits. Monitored wastewater effluent using conductivity and prepared documentation required to specify and purchase on-line meter.

Recovery Department

Jan. 2009 to May 2009

Provided daily product and equipment support for engineers. Optimized CIP cycle to reduce concentration of cleaning solution. Led to significant reduction in costs of raw materials. Assisted in maintenance of ultrafiltration system. Maintenance finished in record time. Transitioned Total Organic Carbon (TOC) Analyzer from Quality Control Lab to production floor. Prepared SOP and led training sessions to inform operators of proper use.

SKILLS

Microsoft Office, MATLAB, Solid Works, Aspen, SuperPro Designer and Visual Basic

HONORS & ACTIVITIES

Dean's List

R.J. Reynolds Scholarship Recipient, Aug. 2007 to present

American Institute of Chemical Engineers (AIChE), National Member, Aug. 2009 to present

- Participated in three national student conferences

AIChE, NCSU Chapter, Aug. 2007 to present

International Society of Pharmaceutical Engineers (ISPE), NCSU Chapter, Jan. 2008 to present

Co-op Ambassador, Sept. 2009 to present

Intramural Basketball, Jan. 2008 to Mar. 2008