

# Jesse Nicholas Cochran

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## *Academic Record*

University of Alabama at Birmingham – Birmingham, AL (Summer 2010 – Present)

**Hughes Med to Grad Scholar** in Neuroscience (GPA: 3.70)

Auburn University – Auburn, AL (Fall 2005 – Spring 2010)

**Bachelor of Chemical Engineering**, Biomedical Specialization (GPA: 3.58)

GRE – Verbal: 560, Quantitative: 780, Analytical Writing: 5.5

## *Work Experience*

Center for Neurodegeneration and Experimental Therapeutics, University of Alabama at Birmingham

**Graduate Research Assistant** (June 2010 – Present)

- Assisted in development and optimization of secondary assays for a Parkinson's Disease drug screen (PI: Dr. Andrew West)
- Currently working on a translational research project for Tauopathies (PI: Dr. Erik Roberson)

Scott-Ritchey Research Center, College of Veterinary Medicine, Auburn University

**Undergraduate Research Assistant** (February 2009 – May 2010) (PI: Dr. Douglas Martin)

- Prepared two genes for insertion into viral vectors to treat a class of lysosomal storage diseases in cats as a model for eventual human therapies
- Documented research results in a senior honors thesis

GE Plastics / SABIC Innovative Plastics – Montgomery, AL

**Process Control Co-op** (Summer 2008)

- Performed code optimization on a Yokogawa CS3000 DCS
- Developed a method to eliminate the need to input lab data in multiple systems

**Project Engineering Co-op**

Resin (Fall 2007)

- Managed steam pump installations and repairs on six heat exchangers from start to completion
- Performed a comprehensive analysis of a methylene chloride system in need of repair

Finishing (Spring 2007)

- Performed financial analysis and gathered design feedback for an additive delivery system
- Created and carried out a double-blind study to choose a plant-wide cleaning agent

**Web Developer**

- Designed, developed and maintained several websites (2001 – 2008)
- Continue to maintain personal website, [nickcochran.com](http://nickcochran.com) (2003 – Present)

## *Achievements & Involvements*

President of AIChE, Auburn Chapter (May 2009 – May 2010), Member of TBII engineering honor society and ΦAY national honorary chemical society, Dean's List (Spring & Fall 2008, Fall 2009), South's BEST robotics competition judge (December 2007 – 2009), Completed the Junior Honors Program (Spring 2006), Study abroad with Auburn in Salamanca, Spain (Summer 2004)

Scholarships: Full Freshman Academic, Departmental from COSAM (2005) and Chemical Engineering (2008)