

# Ejaz Haque

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## Objective

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To pursue industrial level research in the field of materials science. Specifically, I wish to further my understanding of emerging technologies in the fields of polymers and renewable nanomaterials.

## Education

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**Georgia Institute of Technology** Atlanta, GA  
*Doctor of Philosophy (ongoing)* 2016 – Present  
*Major:* Materials Science and Engineering  
*Minor:* Paper Science and Engineering

**University of Illinois** Urbana-Champaign, IL  
*Bachelor of Science with Distinction* 2011 – 2015  
*Major:* Chemical Engineering

## Project Experience

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**Abbott Vascular** Santa Clara, CA  
*Research Analyst* May – August 2014

- Investigated the effects of extended hydration of PLLA stents on  $T_g$  and percent crystallinity
- Performed differential scanning calorimetry (DSC) on stents and used statistical analysis to evaluate resulting data
- Compared data with results from earlier studies to determine why soaking mimics real time aging in polymer stents

*Science Intern* May – August 2013

- Applied polymer coating to cobalt-chromium stents and analyzed their integrity via SEM
- Synthesized PLLA oligomers of defined length and confirmed their purity through NMR and MS analysis
- Utilized thin layer and column chromatography to isolate products for characterization
- Developed prize-winning method for novel use of an existing social media platform for Abbott rebranding effort

**iEFX Projects** Urbana-Champaign, IL  
*Designer* September – December 2011

- Used analytical and computational techniques to construct a wind turbine to power an LED
- Developed mathematical formula for design of an efficient blade spiral

**Deeya Energy** Fremont, CA  
*Intern* July – August 2010

- Shadowed and assisted professional chemists and engineers in the field of large scale energy storage
- Studied modern flow battery technology and alternative energy principles

## Leadership & Activities

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**AICHE** University of Illinois at Urbana-Champaign  
*General Member* 2011 – Present

- Attend presentations hosted by chemicals corporations and research laboratories
- Earned SACHE certification in Dust Explosion control and Process Safety from Experience

**Agami** San Jose, CA  
*Intern Mentor* 2009 – Present

- Mentor high school students planning to visit and assist underfunded schools in Bangladesh

## Honors

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**Abbott Laboratories**

- Abbott Pioneering Award for employee excellence

**University of Illinois**

- Dean's List
- Distinction