

Rohini Gupta

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EDUCATION

University of Illinois at Urbana-Champaign, College of Engineering

Bachelor of Science in Civil & Environmental Engineering

Primary Focus: Hydrology and Hydraulic Engineering

Secondary Focus: Energy-Water-Environment Sustainability

Urbana-Champaign, IL

Expected Graduation: May 2017

GPA: 3.87/4.00

WORK/ EXPERIENCE

Undergraduate Research Assistant, University of Illinois at Urbana-Champaign

Champaign, IL

Stillwell Research Group: Department of Civil and Environmental Engineering

June 2015-Present

- Studied the ecological effect of thermal pollution from once-through coal fired power plants on the Ohio River
- Organized a database of fish catches on the Ohio River from 1950-2014
- Generated a mathematical model to predict the likelihood of the presence of fish species at certain water temperatures

Engineering Learning Assistant, University of Illinois at Urbana-Champaign

Champaign, IL

Department of Civil and Environmental Engineering

August 2015-Present

- Lead group discussions on how to best utilize resources on campus and join student organizations
- Write and assign homework intended to familiarize freshmen with the university and Civil Engineering program
- Prepare the students for the career fair by helping them write resumes and elevator pitches
- Serve as a mentor that the students can utilize at any point in their college careers

Research Intern, National Renewable Energy Lab

Golden, CO

Science Undergraduate Laboratory Internship (SULI) Program

June 2016-August 2016

- Created an empirically-based methodology to determine the effects of temperature on power plant efficiency
- Collected and organized 10 years of daily historical data from USGS, NOAA, EPA, and EIA
- Generated maps in ArcGIS to visualize the locations of power plants, stream gauges, and weather stations
- Results will be used to suggest more accurate ways of characterizing power plant operations in energy systems models

LEADERSHIP & ACTIVITIES

Tau Beta Pi

Vice President, Corresponding Secretary

August 2015-Present

- Organize chapter events by booking rooms and determining catering options
- Update a database of students eligible for membership
- Communicate with national headquarters on chapter logistics
- Complete election reports and paperwork outlining chapter events

Engineers Without Borders (EWB)

Soppo Likoko Power Project Travel Team

August 2013-May 2016

- Conducted research on power distribution in Soppo Likoko, Cameroon
- Calculated the viability of hydropower generated from the village river
- Carried out testing of water sources to determine coliform levels
- Surveyed and mapped out high tension lines and homes in Soppo Likoko for power company SONEL
- Conducted house surveys to estimate the load on the system

Society of Women Engineers (SWE)

Team Tech Member

August 2013-May 2015

- Collaborated with John Deere to design a more ergonomic and cost-effective tractor seat
- Worked as a team to design and model a seat using Creo software
- Learned about industrial techniques such as weather-testing and injection molding
- Presented the design at the Society of Women Engineers National Conference in October 2014

AWARDS & RECOGNITIONS

Tau Beta Pi-An engineering honor society that recognizes the top 1/8 of the junior class and top 1/5 of the senior class, Spring 2015

Bob Zieba Memorial Scholarship-The Department of Civil & Environmental Engineering awards the Bob Zieba Memorial Scholarship to a student in Civil Engineering who is active in their community with preference to a youth involved in athletics, April 2014, April 2015

Dean's List

James Scholar

SKILLS

Computer Skills: Matlab, ArcGIS, C, Microsoft Excel, Autodesk Inventor

Language Skills: Conversational Spanish