

Alicia Applicant

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123 Blue Devil Way, Durham, NC 27708

Education

Duke University, Durham, NC

Graduation Expected in December 2012

Master of Engineering in Environmental Engineering GPA: 3.625 / 4.0

- Bio Process, Physical Chemical Process in Env Engineering, Energy Technology, Env Microbiology, Aquatic Chemistry, Business Fundamentals, Chemical Fate of Organic Compounds, Env Transport, Air Quality Management

Blue Devil University, China

June 2011

B.S.E in Environmental Engineering GPA: 3.3 / 4.0

- Biotechnology in Environment, Water, Air Pollution Control, Solid Waste Material Treatment, Environmental Monitoring, Water Supply & Sewerage Net Engineering, Engineering Design

Industry Experience

Duke & Associates, Inc., Indianapolis, IN

May 2012 to present

Engineering Intern / Environmental Consulting

- Participated in drilling, monitoring well installation, excavation
- Performed soil and groundwater sampling, soil characterization, complete field notes on sites
- Prepared tables and figures, boring logs, permitting documents
- Developed subsurface contaminant plume model with computer applications to simulate remediation

Pratt & Co, HongKong, China

Intern / Carbon Footprint Management Project

Jul~Aug 2010

- Summarized current literature and research, conduct data analysis and presentation
- Measured and kept track of carbon emission and recommended low carbon practices in office operation

Blue Devil Light and Textile Industry Design Institute, China

Project Assistant / Municipal Treatment Project

Aug 2009

- Used AutoCAD for engineering graphics in wastewater treatment plant

Research Experience

Department of Environmental Science and Engineering, Blue Devil University, China

Independent Researcher / Graduation Project

Jan~June 2011

- Conducted total organic analysis, fluorescence excitation-emission matrix (EEM) spectral analysis to investigate the fate of nature organic matter (NOM) fractions in river water by biological aerated filter (BAF)

Independent Researcher / Research Project

Aug~Oct 2010

- Characterization of extracellular polymeric substances (EPS) in octanol-partition coefficient
- Extracted and partitioned EPS, tested protein, polysaccharide, humic substances in UV-Visible spectroscopy

Research Assistant/ Research Project

Dec 2009~Mar 2010

- Partial nitrification bioreactor start-up
- Achieved completely autotrophic nitrogen removal over nitrite in one single reactor

Sun Yat-Sen University, University Of Duke & Durham University of Hong Kong

Group Member / Research Project

Mar~Apr 2010

- Sediment characterization of benthic habitats at Mai Po
- Conduct field test and lab work to access human activity effect on wetland sustainability and management

Other Experience

Duke Annual Fund, Student Caller

Oct~Dec 2011

China Blue Devil Company Ltd., Sales Representative

Mar~Nov 2008

Skills and Expertise

Water Quality Analysis, Contaminant Transport Modeling, Carbon Footprinting, Biological Reactor Start-up, 40hr-HAZWOPER, GeoGraphics, AutoCAD, Matlab, MS Excel, MS Word, MS PowerPoint, Photoshop