

Saeideh Abolghasemi Riseh

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Education

MEng in Clean Energy Engineering , University of British Columbia (UBC), Vancouver	Sep, 2011 – Jan, 2013
MSc in Environmental Engineering , San Diego State University (SDSU), California, US	Jan, 2009 – Aug, 2011
BSc in Chemical Engineering , University of Tehran, Iran	Sep, 2004 – Sep, 2008

Professional Skills Summary

Communication and Writing

- **Quarterly Presentations** for Senior Management Team
- Undertook **Writing for Engineers** in the Workplace course
- Received Dean's award for **outstanding presentation**
- Authored a **published thesis**

Energy Management

- Facility **energy management** consultation
- **Energy auditing**
- **Energy Modeling**
- Energy **monitoring** and saving **verification**
- Trained on **thermal & electrical energy saving** opportunity

Leadership and Management

- **Led** a district-wide full recycling program for more than 40 sites
- **Led** a four-member research team for a 100-day period
- **Managed** and monitored energy performance of more than 50 sites

Technical Projects

Langley School District #35 *Energy Specialist*

May, 2012 – Present

- Monitoring energy performance and emission data of 51 sites in the District and detecting anomalies and providing recommendations
- Reviewing Building Mechanical Systems for potential energy conservation projects and preparing proposals
- Identified Hot Water Tank replacement, Boiler replacement, Power Factor Correction, Kitchen Equipment upgrade for Energy and Cost savings in more than 12 sites
- Performed saving analysis and verification of replacement two old boiler units by high efficiency condensing boilers, four hot water tank replacements by on-demand heating systems, and three lighting T12 to T8 upgrade projects
- Completed lighting audit for West Langley Elementary School with estimated total energy saving of 67000 KWhr and total cost saving of \$6500 annually
- Wrote energy management quarterly reports and presented to Secretary Treasure, District Senior Management, and BC Hydro Account Managers
- Applied for more than 10 incentives from BC Hydro and Fortis BC

Facility Energy Management Consultation

Jan, 2012 – May, 2012

- Undertook an ASHRAE Level 1 and 2 audit of a facility including a report with a screening analysis of multiple energy-saving measures
- Conducted a detailed analysis on energy, economics and GHG emissions
- Wrote a report and presenting the results to the facility's management

Professional Development

Energy Modeling Processes and Methodology for the Built Environment, UBC

June, 2013

- Trained on Basics of Energy Modelling by reviewing available softwares for Energy Modelling
- Educated on the limitation and advantages of each modeling software
- Trained on eQUEST software by Hands-on Activities

Writing for Engineers in the Work Place, UBC

Feb, 2013 – March, 2013

- Trained on proper writing emails, memorandum, proposals, and technical reports
- Trained on the skills needed for effective communication such as how to manage tone, grammar, style, and the writing process

Dollar to Sense two-day Workshop – Thermal Energy Saving Opportunity, Fortis BC

May, 2012

- Trained on options on maximizing efficiency for heating systems and boilers
- Trained on spotting the energy saving opportunities on natural gas-burning systems
- Trained on basics of eliminating energy waste by utilizing DDC
- Trained on basics of optimizing the supply by heat recovery and renewable energy utilization in facility

Volunteer Experience

Engineers Without Borders - SDSU

Fundraising coordinator (grants, sponsors, and donors)

Oct, 2010 – May, 2011

- Directed Wine for Water fundraising event for 500 attendees and raised over \$3000 for the organization
- Wrote grant proposals and networked with individuals to raise over \$2000 through these attempts
- Organized a fundraising committee and bi-weekly meetings

Publications and Conferences

Saeideh Abolghasemi Riseh, The Application of Thermography in Determination of Sampling Points in GreenWaste Composting, Student Research Symposium, San Diego State University, San Diego, CA, 2010

Fatih Buyuksonmez and **Saeideh Abolghasemi Riseh**, Determination of Green House Gases from Greenwaste Composting, US Composting Council Annual Conference, Orlando, Florida, January, 2010

M. Ghorbani, F. Pajoum Shariati, M.R. Mehrnia, **S. Abolghasemi Riseh**, "An Overview on Anaerobic Membrane Bioreactors and their Applications in Industrial Wastewater Treatment", 2nd Conference and Exhibition of Environmental Engineering, Tehran, Iran, 2004

Honours and Awards

Won the **Environmental Award** in Educator Sector from **British Columbia Recycling Council** for leading the district-wide recycling program, May 2013

SDSU Dean's award of Student Research Symposium for **outstanding oral research presentation**, San Diego State University, March 2011

Professional Affiliations

American Society of Civil Engineers (ASCE), US, 2011
Society of Women Engineers (SWE), US, 2010

National Society of Professional Engineers (NSPE), US, 2010
Engineers Without Borders (EWB), SDSU Chapter, US, 2010