

Nathan Walker
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T: (720) 224-4191

Dear Sir or Madam:

I am a recent graduate from the Colorado School of Mines (CSM) and hold my Master's degree in environmental science and engineering and I am currently seeking a career as an engineer or scientist in the water/wastewater, remediation, environmental, or energy sectors. Through my undergraduate and graduate work I have gained in-depth knowledge of environmental remediation, water treatment and the environmental sciences, and the laws and regulations surrounding them. My graduate research focused on the application of advanced membrane water treatment technologies. My coursework emphasis at CSM was on remediation technologies, reclamation, and reuse, as well as conventional and advanced water treatment. I also hold a BS degree in Environmental Science from Western Washington University where I focused on risk assessment, toxicology, and chemistry.

Specifically, I have completed coursework in water chemistry, contaminant fate and transport, risk assessment, wetlands biology, ecology, advanced water treatment, groundwater transport, hazardous waste site remediation, and environmental law. In my research I was able to combine my deep interests in hydrology with my desire to better understand the water-energy nexus. My research focused mainly on the application of thermally-driven membrane processes, but also included some study of pressure driven and osmotically driven membrane processes for the treatment of impaired waste streams.

Throughout my research I designed and constructed experimental systems and conducted experiments to evaluate the feasibility of using membrane technologies for extraction of water from warm saline waste streams, as well as from geothermal brines. These experiments were conducted at bench and pilot scale. In addition to the experimental work I have completed, I have had the opportunity to complete a basic mathematical model based on the results from my experiments.

I am seeking a career as an engineer or scientist in the environmental or energy sectors, and feel that my qualifications would make me an excellent employee. I would be excited for the opportunity to interview and would be happy to answer any questions you might have.

Thank you very much for your time,



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Education

Colorado School of Mines Golden, CO Graduation – December 2008

- **Master of Science – Environmental Science and Engineering**
- GPA: 3.9

Western Washington University Bellingham, WA Graduation – June 2006

- **Bachelor of Science – Environmental Science** Minor: **Chemistry**
- GPA: 3.2

Professional Experience

Colorado School of Mines Golden, CO May 2007 – Jan 2009

Research Assistant

- Carried out experiments pertaining to application of advanced water treatment processes at industrial facilities
- Designed and constructed bench and pilot scale water treatment systems
- Performed water analysis using various analytical methods (IC, ICP, TOC, UV, Hach methods)
- Prepared reports detailing research progress for National Renewable Energy Laboratory

Colorado School of Mines Golden, CO Sep 2006 – May 2007

Teaching Assistant

- Prepared and performed bench-scale demonstrations of water treatment technologies for graduate classes
- Maintained and serviced pilot scale conventional water treatment system

Idaho Department of Environmental Quality Twin Falls, ID Jul 2006 – Aug 2006

Beneficial Use Reconnaissance Program crew

- Participated in assessment of the quality of remote streams throughout south central Idaho
- Worked with a team to develop work plan for stream monitoring

Botanical Laboratories Ferndale, WA Mar 2005 – Mar 2006

Laboratory Assistant

- Maintained laboratory cleanliness and extract vats
- Assisted in compounding when necessary

Western Washington University Bellingham, WA Mar 2004 – May 2004

Research Assistant

- Executed various lab tasks including sediment grain size analysis and removal of marine organisms from prepared marine sediment samples

Qualifications Profile

- Adept in collecting and analyzing data in diverse settings
- Able to conceptualize problems, then propose and evaluate potential solutions
- Ability to design and carry out detailed scientific studies
- Experience constructing and maintaining complex laboratory apparatuses
- Writing accurate, in-depth, succinct reports

Presentations, Awards, and Scholarships

- **Edna Bailey Sussman Fellowship - \$5,880** Apr 2008
- **Oral Presentation Award - \$200** 5th Annual WEF/AWWA Student Conference May 2008
- **Oral and poster presentation** Geothermal Energy 2008 Conference and Expo Oct 2008

Professional Organizations

- **American Water Works Association (AWWA)** Sep 2006 – Present
- **Water Environment Federation (WEF)** Sep 2007 – Present

Publications

Cath, T.Y., **Walker, N.**, Childress, A.E., Hutton, M., Weinberg, A., “Assessment of traditional and novel membrane processes for recovery of cooling tower water in geothermal power plants.” Proceedings of the 2008 Geothermal Resource Council (*GRC*), Reno, Nevada, October 5-8, 2008.

References

Will be submitted upon request.