Contact:
samsona@mit.edu
(413) 768-8728

Home Address:
7 West High St.
Erving, MA 01344

Term Address:
450 Memorial Dr.
Cambridge, MA 02139

Alyssa M. Samson

Objective: Seeking a full-time position in the field of materials science and engineering.

Education:

Massachusetts Institute of Technology (MIT) September 2007 – present Cambridge, MA
Candidate for a Bachelor of Science Degree in *Materials Science and Engineering*, February 2011;
Coursework includes: Differential Equations; Organic Chemistry; Solid-State Chemistry; Electronic, Optical, and Magnetic Properties of Materials; Microstructural Evolution of Materials; and Introduction to Modeling and Simulation. Current coursework: Organic & Biomaterials Chemistry; Materials Selection, Design, & Economics; and Nanoscale Materials. *G.P.A. 4.4/5.0*

Cambridge University October 2009 – June 2010 Cambridge, UK
Cambridge-MIT Exchange (CME) student studying *Materials Science and Metallurgy*, *Tripos Part II*.
Coursework included: Mechanical Properties of Materials; Polymer Physics/Engineering; Materials Processing; Ceramics; Physical Metallurgy; Chemical Stability; Alloys; Composite Materials; Physical & Tensor Properties of Materials; and Medical Applications of Materials.

Frontier Regional School (FRS) September 2001 – June 2007 South Deerfield, MA
Course work included: Advanced Placement classes in Calculus, Statistics, English literature, and French language.
G.P.A. 4.0/4.0

Employment Experience:

HungryFish Media LLC—Research Analyst Cambridge, MA
September 2010 – Present
Performing in-depth scientific literature research on the ergogenic effects of various sports nutrition ingredients. Research includes cell and organism-level research studies as well as domestic and international patents.

MIT Macgregor House—Office Assistant October 2007 – Present Cambridge, MA

ExxonMobil Development Company—Materials Selection Intern Houston, TX
June 2010 – August 2010
Revised and updated a downhole materials selection manual, incorporating new high strength CRAs and composite liners. Planned and oversaw external laboratory testing of high strength CRA materials. Analyzed new information regarding packer brine compatibility and created a guideline tool for packer brine selection. Presented findings to Materials & Corrosion and Drilling groups. Based on performance, was given a positive recommendation for employment.

Calera Corporation—Materials Development and Research Intern Los Gatos, CA
June 2009 – August 2009
Adapted processes for sequestering carbon dioxide in carbonates for use in cement and aggregates. Designed experiments to test the effect of various binders and their suitability. Researched and investigated pathways for carbonate transformations. Presented findings to 80 employees interested in research and development.

Mathematics and Technology Charter High (MATCH) School—Tutor Boston, MA
October 2007 – June 2009
Tutored high school students weekly in mathematics, English, and biology in preparation for the Massachusetts Comprehensive Assessment System (MCAS) and Advanced Placement (AP) exams.

Amherst College—Lifeguard and Water Safety Instructor June 2007 – August 2007 Amherst, MA
Pioneer Valley Driving School—Office Manager September 2006 – December 2006 Amherst, MA
Meadowbrook—Head Lifeguard June 2006 – August 2006 Amherst, MA

Skills:
Materials Science: SEM, EDS, TEM, AFM, PSA, XRD, TGA, DSC, FTIR, electrochemistry
Computer: Operating Systems: Windows, Mac, Linux
Software: Microsoft Office, MatLab, Mathematica, FileMaker Pro

Activities:
MIT Alpine Ski Team (2007-2011), **Captain** (2009-2010), **Treasurer** (2010-2011)
MIT Macgregor House Committee (2007-2009), **Entry Chair** (2007-2008), **Social Chair** (2008-2009)
FRS Varsity Alpine Ski Team (2007) (September 14, 2010)