

Abby Normal

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EDUCATION

University of New Hampshire, College of Engineering and Physical Sciences

B.S. in Bioengineering

Durham, NH
Expected May 2017

Relevant Coursework:

- Organic Chemistry
- Microbiology
- Thermodynamics
- Biomedical Engineering
- Physiology
- Biochemistry
- Biomaterials
- Bioengineering Design I

EXPERIENCE

Massachusetts General Hospital: Center for Engineering in Medicine

Intern

Boston, MA
May 2016 – Present

- Research and develop a plan to implement whole organ tissue engineering and stem cells
- Work closely with a post-doctoral fellow each day
- Enhance skills and understanding of new technology in scientific development workshops
- Attend research seminars and weekly meetings

Worthen Industries, Inc.

Laboratory Assistant

Nashua, NH
May 2015 – August 2015

- Conducted pilot-scale analysis of various water-based silicone emulsion coatings
- Calculated annual VOC emissions using previously recorded results
- Assisted plant inspector on weekly and monthly inspections for New England facilities
- Implemented preventive safety measures for handling hazardous equipment

University of New Hampshire Glycomics Laboratory

Volunteer Laboratory Assistant

Durham, NH
October 2014 – March 2015

- Executed sequential glycolipid N- and O- linked glycan releases for glycomic structure analysis
- Performed MALDI-TOF mass spec analysis on eluted sample of glycans
- Produced comparative analysis results using glycoworkbench

TECHNICAL SKILLS

Applications:

ISSE image processing, Lab View, AutoCAD R14, Pro-Engineering, Simulink, PowerPoint, Excel, and Photoshop

Lab Equipment:

Oscilloscope, Function Generator, Digital Multimeter, Spectrometer, Fluorescent Microscope with CCD Technology, and Scanning Electron Microscope

Lab Techniques:

Three-dimensional Cell Culture and Cell Line Maintenance, Gel Electrophoresis (Zymography), Western Blot, Elisas, Flow Cytometry, Immunofluorescence Staining, and RNA extraction

PROFESSIONAL ASSOCIATIONS

Society of Women Engineers (SWE)

Student Treasurer

Durham, NH
December 2015 – Present

- Organize fundraising events to support travel to the SWE Conference each semester
- Allocate funding to travel to local middle schools to support the growth of women in science and engineering

International Society for Pharmaceutical Engineers (ISPE)

Student Member

Durham, NH
September 2014 – Present

- Attend classroom training events to further knowledge of various pharmaceutical subjects
- Involved in a mentorship program through which a professional assists with career guidance