

[Connect](#)[Message](#)[More...](#)**Olivia Hale** · 3rd

Biomedical Engineer at Neuparticle Corporation

Washington, District Of Columbia · 500+ connections ·

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Neuparticle Corporation



Northeastern University

About

I appreciate drawing connections across disparate fields of science including biomedical engineering, nanotechnology, and electrical engineering. I currently work at Neuparticle Corporation as a biomedical engineer ... see more

Experience



Biomedical Engineer

Neuparticle Corporation · Full-time

Aug 2019 – Present · 5 mos

North Bethesda, MD

Weinberg Medical Physics LLC

1 yr 8 mos



Biomedical Engineer

Mar 2018 – Aug 2019 · 1 yr 6 mos

Washington D.C. Metro Area



Biomedical Engineering Consultant

Jan 2018 – Mar 2018 · 3 mos

Rockville, MD

Helping to design the software and hardware of a compact, low-power, ultra-fast MRI machine for image guided therapy.

Graduate Student Researcher

Clark Lab Northeastern University

Sep 2016 – Jan 2018 · 1 yr 5 mos

Boston, MA

Erythrocyte Encapsulation of Nanosensors (Master's Thesis): The goal is to fabricate ion selective optodes (optical nanosensors with ion selective imaging) for the detection of lithium concentrations within the physiological range of bipolar disorder treatment. These lithium detecting optodes are then encapsulated in red blood cell membrane to increase cir ...see more



Nanosensors

Private Tutor

Boston Tutoring Company

Mar 2017 – Dec 2017 · 10 mos

West Roxbury, Massachusetts

Help students from elementary to high school prepare for ISEE and SAT testing and help students having difficulty in their normal academic courses.



BOSTONTUTORINGCENTER.COM

Undergraduate Researcher in Single Particle Tracking

Precision Engineering Research Laboratory

Sep 2015 – May 2016 · 9 mos

Photonics, Boston University, Boston, MA

Tracked the local flow velocities of nanoparticles through porous media at a desired flow rate in 3D. Constructed a flow cell, filled it with glass beads to create micron sized pores, and used a wide field microscope to image the fluorescent nanoparticles moving at ten microns per second. We then wrote an algorithm in MATLAB to track the nanoparticles within the ... [see more](#)

[Show 3 more experiences](#) ▾

Education**Northeastern University**

Master's Degree, Bioengineering and Biomedical Engineering, Alumni

2016 – 2017

MS in Bioengineering from Northeastern University's College of Engineering with a concentration in Biomedical Devices and thesis research in targeted drug monitoring nano- and micro- particles.

**Boston University**

Bachelor's Degree, Biomedical/Medical Engineering, Alumni

2012 – 2016

Activities and Societies: Boston University Women's Club Soccer

BS in Biomedical Engineering with a minor in Electrical Engineering, a concentration in Nanotechnology, and research in single particle tracking of quantum dots and diagnostic nanoparticle fabrication and characterization.

Berlin High School

High School, Bioengineering and Biomedical Engineering

2009 – 2012

[Show 1 more education](#) ▾

Volunteer Experience**Patient Transporter at The Hospital of Central Connecticut**

The Hospital of Central Connecticut

Skills & Endorsements**Biomedical Engineering** · 7

Endorsed by 3 of Olivia's colleagues at Boston University

Microsoft Excel · 6

Endorsed by 3 of Olivia's colleagues at Boston University

Matlab · 6



Endorsed by 3 of Olivia's colleagues at Boston University

[Show more](#)

Accomplishments

40

Courses



Advances in Nanomaterials • Analog Electronics • Auditory Systems and Hearing Processes
• Biomedical Measurements 1 & 2 • Biomedical Senior Project 1 & 2 • Business Technology
Innovation • Calc 1 & 2 • Control Systems Biology • Design of Biomedical Instrumentation • Design
of Implants • Design, Manufacture, and Evaluation of Medical Devices • Differential Equations
• Electric Circuit Theory • Elementary Modern Physics • Engineering Mechanics • Gen Chem 1 & 2
• Gen Physics 1 & 2 • General Psychology • Intro to Cultural Anthropology • Intro to Electronics...

2

Languages



English • Spanish (conversational)