



JESSICA HARRISS

Objective: Proactive senior Material Science and Engineering major with a minor in Manufacturing seeking a position in industry. Eager to utilize expertise in materials processing, assembly, and characterization.

PROFILE

An enthusiastic Material Science & Engineering major with hands on-experience in material characterization, lab testing, and data analysis. I'm based out of Natick Massachusetts.

I am eager to apply my strong analytical and communication skills in the workplace. I have a diverse knowledge-set among all types of various materials, have been trained in various modeling software, and have ample practical lab experience.

CONTACT

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HOBBIES

Clay Sculpting: I enjoy sculpting as it helps in developing creativity, fine motor skills, and developing understanding in 3D modeling.

Board Games: I enjoy cooperative board games focused on communication and problem solving.

Reading: I'm an avid reader and fast reader that enjoys expanding my knowledge base and being exposed to new ideas.

EDUCATION

University of Connecticut | B.S Material Science & Engineering *Minor in Manufacturing*

Fall 2022 – Present – Expected to graduate May 2026

Awards: UCONN TAB EPA Grant Assistance Presentation – 2nd Place

RESEARCH EXPERIENCE

UCONN Institute of Material Science | Research Assistant

January 2026 - Present

Preparing steel samples for analysis by cutting, grinding, and polishing.

UCONN Center for Clean Energy Engineering | Research Assistant

March 2024 – May 2024

Assisted with research of fuel cells and electrolyzers. Aided with stress testing samples. Organized administrative data and research files.

UCONN Material Science & Engineering | General Lab Training

March 2024 – Present

Metals Processing: Sand Casting, Heat Treatment, Soldering, Grinding, Polishing, Etching, Hot/Cold Mounting, Charpy & Izod Testing, Blacksmithing, Microscopy

Ceramics: Three Point Impact Testing, Water Retention Testing, Sample Assembly

Polymers: Extrusion, Recycling, Printing, Tensile Testing, Paper Characterization,

Composites: Concrete Production and Characterization

Training and Certifications: Material Characterization Machines, Additive Manufacturing Methods, CAD, Programming Skills, ANSYS Engineering Simulation, Mechanical Design and Prototyping, Chemical Safety Training

Relevant Coursework: Materials Joining (welding), Corrosion & Materials Protection, Brownfield Redevelopment, Failure Analysis, Additive Manufacturing,

Additional: Grant Writing, Junior Design Project: Reproduction & Mechanical Tests of Roman Concrete, Senior Design Project: Electrochemical Coating Design

AFFILIATIONS AND ACTIVITIES

Material Advantage | ASM International

March 2024 – Present

A nationwide program for students interested in MSE. Competed in the ASM International Heat Treat Competition at the 2025 IMAT conference in Detroit.

Metal Working Club

March 2024 – Present

A club focused on training students in various metalworking processes

3D Printing Club | Secretary

March 2024 – Present

A club centered on teaching CAD design and additive manufacturing methods

Survivor UCONN Club

March 2022 – Present

A club training creative problem solving, physical fitness, & communication skills