

Mallory Phillips

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Education

Biomedical Engineering BS

Bioinstrumentation

University of Colorado Boulder

GPA 3.47

Boulder, CO

May 2026

Experience

Undergraduate Assistant

Lynch Lab of Mechanical Engineering

January/2024 - Present

Boulder, Colorado

- Performed research analysis on osteocyte development patterns through PCR, loading techniques, and irradiation treatment.
- Conducts mechanobiology experiments on breast cancer cells in an engineered 3D bone scaffold, mimicking their behavior following metastasis to the skeleton.

Student Liaison

Office of Biomedical Engineering, University of Colorado Boulder

July/2023-Present

Boulder, Colorado

- Coordinate, compile, and distribute information between multiple departments to maintain effective communication internally and externally.
- Prioritize tasks within a team ranging from organizational tasks to event preparation for 30+ graduate students.
- Maintain professional front of the office through composure, policy, and environment.

Leadership and Additional Experience

Department Liaison

Biomedical Engineering Society

May/2023-Present

Boulder, Colorado

- Organize events of up to 250 students and various professional guests, managing funds, event planning, logistics, and execution.
- Heading communication efforts between professional and student body. Lead meetings and active encouragement and resources for students.
- Coordinating funding and department engagement between university and Undergraduate groups.

Course Assistant

BMEN 1000 Introduction to Biomedical Engineering

January/2023-Present

Boulder, Colorado

- Oversee introductory class to Biomedical Engineering providing a breadth of insight on the opportunities of the career.
- Provide fair and constructive feedback to students, demonstrating professionalism.

Honors AND Certificates

CU Esteemed Scholars- University of Colorado Boulder

\$ 28,000

Rotary Service Scholarship- Loveland Rotary Club

\$ 8,000

Scott Olson STEM Scholarship- Thompson Education Foundation

\$ 2,100

Good Citizen Scholarship- Daughters of the American Revolution

\$ 200

Solidworks CWSA Professional Certificate- University of Colorado Boulder

December/2022

Key Skills

- Technical Skills/Computer Skills: Proficient with Microsoft Office, LTSpice, SIMETRIX, 3D printing, laser cutting/engraving, product testing, basic carpentry. Proficient in C++, MATLAB, JavaScript, and Python.
- Laboratory Skills: Cell culture, histology, dissection, micro CT imaging, PCR.
- Language: Spanish-Colorado Seal of Bilingualism 2020
- Involvement: CU Buffalo Country Swing- Leadership (2022-Present)