

# SCOT HIGHLANDER

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## EDUCATION

University of California, Riverside

**Master of Science, Bioengineering**

June 2026

University of California, Riverside

**Bachelor of Science, Bioengineering**

June 2023

## TECHNICAL SKILLS

Circular Dichroism (CD), Static Light Scattering (SLS), Gel Electrophoresis, High Pressure Liquid Chromatography (HPLC), Protein Expression, Osmometer; ViewLogic, SolidWorks, ABAQUS, MatLab/Simulink, AutoCAD, PSpice, TableCurve, COMSOL, JAVA, C/C++, LabVIEW, Assembly Language, Microsoft Office Suite

## BIOENGINEERING RESEARCH AND DESIGN EXPERIENCE

Department of Bioengineering, UC Riverside

**Teaching Assistant**

March 2025 – Present

- Facilitate laboratory and class discussions of up to 40 undergraduate students in bioinformatics and engineering
- Develop weekly experimental design lesson plans and instruct students on laboratory project goals
- Conduct research on stem cells and diseases such as cancer using video bioinformatics tools

Department of Bioengineering, UC Riverside

**Research Project**

September 2024 – Present

- Assist post-doctoral candidate in performing research and data analysis on the current impact of diseases in human health by utilizing image-processing software to extract data of flow patterns
- Study embryogenesis, wound repair, and cite scholarly articles for research findings

Center for Environmental Research and Technology (CE-CERT), College of Engineering, UC Riverside

**Undergraduate Researcher**

January 2023 – June 2023

- Analyzed extracellular matrix and the growth of healthy tissue using a Multiphoton fluorescence microscope
- Studied samples of collagen to determine the results and the necessary design changes
- Updated and modified lab and safety policy and procedures to ensure an effective use of lab equipment

## WORK EXPERIENCE

Residential Life, UC Riverside

**Resident Advisor**

September 2021 – June 2023

- Facilitated the personal growth of 550 residents, encouraged and enforced the compliance of community standards, and addressed various security issues in crisis situations
- Served as the Leadership Advisor to students and participated in training on inclusive diversity practices

Student Recreation Center, UC Riverside

**Student Assistant, Front Desk Operations**

September 2020 – June 2021

- Assisted members with facility access, membership inquiries, and program registration, ensuring accurate data entry and a positive client experience.
- Resolved customer concerns regarding facility policies and services, effectively de-escalating issues and enhancing member satisfaction.
- Maintained a comprehensive understanding of facility offerings, operating hours, and upcoming events to provide accurate information to staff and members.

## PROFESSIONAL AFFILIATIONS AND INVOLVEMENT

**Member**, BioMedical Engineering Society

August 2021 – June 2023

**Member**, Tau Beta Pi, National Engineering Honor Society

August 2020 – June 2023