

SCARLETT HIGHLANDER

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OBJECTIVE

To obtain a Graduate Internship with Abbott Vascular

EDUCATION

Master of Science in Bioengineering June 2019

University of California, Riverside, Riverside, CA

Relevant Coursework: Cardiovascular, Renal, Translational Biomedical Research, Cellular and Molecular Engineering

Bachelor of Science in Bioengineering June 2015

University of California, Riverside, Riverside, CA

TECHNICAL SKILLS

Laboratory: Circular Dichroism (CD), Static Light Scattering (SLS), Gel Electrophoresis, High Pressure Liquid Chromatography (HPLC), Protein Expression, Osmometer

Computer: ViewLogic, SolidWorks, ABAQUS, MatLab/Simulink, AutoCAD, PSpice, TableCurve, COMSOL, JAVA, C/C++, LabVIEW, Assembly Language, Microsoft Office Suite

BIOENGINEERING RESEARCH AND DESIGN EXPERIENCE

Teaching Assistant October 2018 – Present

Department of Bioengineering, UC Riverside

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

Research Project September 2017 – Present

Department of Bioengineering, UC Riverside

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

Undergraduate Researcher January 2015 – June 2015

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

- 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

Resident Advisor September 2013 – June 2015

Housing Services, UC Riverside

- 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
- Recruited and interviewed resident advisors as part of the selection committee

PROFESSIONAL AFFILIATIONS AND INVOLVEMENT

Vice President, **Bioengineering Graduate Student Association** (BE-GSA) June 2017 – Present

Member, **BioMedical Engineering Society** August 2014 – June 2015

Member, Tau Beta Pi, **National Engineering Honor Society** August 2012 – June 2015