

## RESEARCH INTERN – ZHOU LAB

### POSITION SUMMARY

The Zhou lab uses budding yeast, human cells, and fruit fly as the main model organism to study the cell biology of aging with an emphasis on proteostasis and mitochondria. We use cutting edge systematic biology approaches, robotics, high-throughput imaging screening, cryo-EM, as well as traditional biochemistry, proteomics, and genetics etc. We also have a broad interest in other cellular structures and aim to discover new inter-organellar communications/interactions. Proteostasis defects and mitochondrial dysfunction are two conserved hallmarks of aging and many neurodegenerative diseases, including AD. We are interested in questions related to protein folding, protein misfolding/aggregation, phase separation, mitochondrial biogenesis and dysfunctions, as well as other cell biological questions, in response to stress, aging, and AD.

### LEARNING OBJECTIVES

- Explore basic laboratory techniques (i.e., pipetting, making buffers)
- Learn to perform quality benchwork and assays
- Collaborate with scientists on how to use analytical and chemistry skills
- Practice lab record keeping skills
- Introduction to data analysis

### ADDITIONAL INFORMATION

- Spring
- Part-time position (8 to 12 hours per week)
- Intern will be paid \$1,500 for the term

### KEY RESPONSIBILITIES

- Assist in the operation and maintenance of the laboratory and related areas
- Perform specialized and technical duties
- Prepare and maintains chemical solutions, media, biological specimens, reagents
- Perform a variety of assays
- Operate a variety of equipment

### QUALIFICATIONS

- Working towards AA/BA/BS degree in a biological, chemical or physical science
- Strong aptitude, background, and knowledge of basic scientific theory
- Strong motivation to perform research
- Excellent technical and problem-solving ability
- Precise attention to detail and accuracy
- Works well both with other scientists under general supervision as well as independently
- Excellent communication, interpersonal and organizational skills

### ABOUT US

Our success will ultimately change healthcare. At the Buck, we aim to end the threat of age-related diseases for this and future generations by bringing together the most capable and passionate scientists from a broad range of disciplines to identify and impede the ways in which we age. We are an independent, non-profit institution located in Marin County, CA, with the goal of increasing human healthspan, or the healthy years of life. Globally recognized as the pioneer and leader in efforts to target aging—the number one risk factor for diseases including Alzheimer’s, Parkinson’s, cancer, macular degeneration, heart disease, and diabetes—the Buck seeks to help people live better longer.



**Live better longer.**

We are an equal opportunity employer and strive to create an atmosphere where diversity of identity, experience, and background are welcomed, valued, and supported. Candidates who contribute to this diversity are strongly encouraged to apply.

**TO APPLY**

Please send a resume and cover letter indicating your interest in this internship opportunity via email to [HRrequests@buckinstitute.org](mailto:HRrequests@buckinstitute.org).