

## **POSITION DESCRIPTION: Postdoctoral position in systems biology of resilience and aging in Drosophila**

A postdoctoral position is available immediately, or with flexible start date, in the Promislow lab at the University of Washington. We are looking for a postdoctoral researcher to join an effort to explore the role of biological resilience in aging, using the fruit fly as a model.

Our goal is to explore resilience as a way to understand how and why systems fail as organisms age. As individuals age, they lose resilience, with stressors forcing them into tipping points that lead to failure. Our goal is to develop tools to identify high-dimensional metabolomic and transcriptomic signatures of resilience, to explore the underlying mechanisms, and to suggest potential approaches to prevent the loss of resilience.

We are seeking someone with a PhD in biology, genomics, computational biology, or a related field, and ideally with fruit fly experience. The ability to work extremely well in a team is essential.

### **RESPONSIBILITIES:**

The Postdoctoral Researcher will:

- Design and carry out pilot experiments under the supervision of Dr. Promislow
- Coordinate the metabolomic and transcriptomic data generation and analysis.
- Analyze metabolomic and transcriptomic data generated from hundreds of samples.
- Write up and publish results.
- Contribute to regular lab meetings and one-on-one discussions about project design and progress.

### **REQUIREMENTS:**

PhD in biology, genomics, computational biology, systems biology, or a related field.

#### **Other required qualifications include:**

- Skilled in the use of the R or Python statistical environment
- Strong understanding of the statistical approaches and nuances of high-dimensional data analysis
- Strong organizational skills.
- Ability to learn and integrate new analysis methods.
- Excellent oral and written communication skills.
- Ability and enthusiasm for working independently, and also collaboratively as part of a team

**DESIRED:**

- Familiarity with metabolomic and/or transcriptomic profiling
- Practical understanding of the biology of aging.
- Excellent mentoring skills and desire to work with undergraduates

Interested candidates should send an email with CV, a brief statement of research experience and interests, and names of three referees to Daniel Promislow at [promislo@uw.edu](mailto:promislo@uw.edu) no later than Nov 30, 2021.

*The Promislow Lab is committed to creating a diverse, respectful environment where people of all backgrounds are welcome and can thrive.*

*The University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, gender expression, national origin, age, protected veteran or disabled status, or genetic information.*