



THE JACKSON LABORATORY

LEADING THE SEARCH FOR TOMORROW'S CURES

## Computational Scientist (Systems Immunology)

### Summary

**The Ucar laboratory** at The Jackson Laboratory for Genomic Medicine in Farmington, CT is seeking outstanding individuals to join our team to work at the intersection of Computational Biology and Immunology to perform analyses and develop methods to drive forward our understanding of how immune system and immune responses are changing with age in human and mice. For this, we generate state-of-the-art genomics data (ATAC-seq, CITE-seq) from primary human cells and develop computational methods to analyze and integrate these data. More information can be found at: <https://www.ucarlab.com/>

You will work closely with an interdisciplinary team of scientists including clinical and immunologist collaborators as we continue to build systems immunology pipelines and use them in exciting and novel ways. Your work will focus on age and sex-related variation in the immune system and in immune responses.

### Responsibilities

- Develop new methods to analyze and interpret unpublished Next Generation Sequencing (NGS) data from human/mice immune cells.
- Use novel and existing methods to analyze immune-related datasets.
- Clearly and concisely present data verbally and in written forms.
- Work with lab members and external collaborators. Provide expertise and input when needed.

### Qualifications

- BS or MS degree in Bioinformatics or relevant biological sciences degree. Incumbents who have not achieved Master's degree may compensate for lack of a degree with at least five years of professional bioinformatics work experience. Works under close supervision.
- Must have a strong experience and interest in biology and the immune system
- Must be a strategic thinker, who is highly motivated, action-driven and can get the job done.
- Ability to communicate ideas and work effectively with an interdisciplinary team and incorporate their feedback into analysis.
- Must be collaborative, proactive and flexible in changing direction and methods when needed
- Must have experience programming (R, Python or similar) can take an idea and implement it in code.
- Must be able to thrive in a fast-paced and inter-disciplinary environment.
- The ideal candidate will have a Ph.D or Master's in Statistics, Biostatistics, Computer Science, Bioinformatics or related fields.

### About Us



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The Jackson Laboratory (JAX, [www.jax.org](http://www.jax.org)) is a nonprofit biomedical research institute with over 2,000 employees whose mission is to discover precise genomic solutions for human disease and empower the global biomedical community in the shared quest to improve human health. A National Cancer Institute-designated Cancer Center, JAX has a mammalian genetics headquarters in Bar Harbor, Maine, a facility in Sacramento, California, and a genomic medicine facility, The Jackson Laboratory for Genomic Medicine (JAX-GM), in Farmington, Connecticut.

JAX-GM is transforming medicine by improving patient care, lowering costs, and increasing life span and health span. JAX-GM's research focuses on the complex genetic causes of disease and on the development of genomic solutions tailored to each person's unique genetic makeup.

JAX-GM sits on a 17-acre site on the campus of the University of Connecticut Health Center. The 183,500-square-foot facility opened in the fall of 2014. Now, it houses over 300 biomedical researchers, technicians, and support staff in state-of-the-art computing facilities and laboratories.

JAX-GM resides in the scenic town of Farmington, in the state's capitol region. The Hartford region, which offers some of the best public schools in the country, is made up of both bigger cities and smaller, charming historic New England towns. JAX-GM is also geographically located within 2 hours of Boston and New York and is close to multiple transportation systems, including bus lines, highways, railroads and international airports.

JAX employees work in a collaborative, value-driven, and team-based environment where the focus is on advancing science and improving patients' lives. Researchers apply genetics to increase the understanding of human disease and advance treatments and cures for cancer, neurological and immune disorders, diabetes, aging, and heart disease. JAX was voted among the top 15 "Best Places to Work in Academia" in the United States in a poll conducted by The Scientist magazine!

### **Our Values:**

INTEGRITY - Courage and commitment to do what is right  
PEOPLE - Inspiring our people to enhance the health of all  
ONE TEAM - Unified by our promise to transform medicine and science  
EXCELLENCE - Achieving world-class results  
INNOVATION - Leading with discovery and creative solutions  
STEWARDSHIP - Caring for and enhancing the resources entrusted to us

### **What do we have to offer?**

JAX offers a dynamic and supportive work environment, competitive salaries, and a comprehensive benefits package, including a medical plan, outstanding retirement plan, generous paid time off, and tuition reimbursement including an MBA program. Our campus offers a fitness center with an award-winning wellness program and an onsite full service cafeteria.



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Most importantly, every position contributes to JAX's mission of discovering precise genomic solutions for human disease and empowering the global biomedical community in our shared quest to improve human health.

*The Jackson Laboratory provides equal employment opportunities to all employees and applicants for employment in all job classifications without regard to race, color, religion, age, mental disability, physical disability, medical condition, gender, sexual orientation, genetic information, ancestry, marital status, national origin, veteran status, and other classifications protected by applicable state and local non-discrimination laws.*

Learn more about career opportunities at JAX: <http://www.jax.org/careers>.