



Postdoctoral Fellow

Employer: Vahedi lab

Location: Philadelphia, Pennsylvania (US)

Job Type: Postdoctoral

Employment : Full time

Qualification: PhD

Academia Multiple postdoctoral positions for dry (computational), wet (experimental), or hybrid biologists are available in the lab of Dr. Golnaz Vahedi at the University of Pennsylvania. The Vahedi lab is multidisciplinary, integrating cutting-edge experimental and computational approaches to develop a mechanistic understanding of cell fate determination in the immune system. Further information about our science could be found at <http://vahedilab.com/> and some examples of the lab's social events can be found <https://www.instagram.com/vahedilaboratory/>.

The Vahedi lab's productivity has been recognized by the Burroughs Wellcome Fund, Chan Zuckerberg Initiative, the Sloan Foundation, W. W. Smith Charitable Trust, and the National Institutes of Health including 4D Nucleome Network and the HIRN Consortium. We are affiliated with the Department of Genetics, the Epigenetics Institute, and the Institute for Immunology and Immune Health, Perelman School of Medicine at the University of Pennsylvania.

Our major contributions to the field include:

1. Gene dosage control through multi-enhancer hub formation [https://www.cell.com/immunity/fulltext/S1074-7613\(23\)00221-2](https://www.cell.com/immunity/fulltext/S1074-7613(23)00221-2)
2. Intrinsically disordered domain of TCF-1 acting on the chromatin: <https://www.nature.com/articles/s41590-023-01599-7>

2. Role of TCF-1 promoting chromatin

intermingling: <https://www.nature.com/articles/s41590-022-01232-z>

3. Genome misfolding in type 1 diabetes: [https://www.cell.com/immunity/fulltext/S1074-7613\(20\)30030-3](https://www.cell.com/immunity/fulltext/S1074-7613(20)30030-3)

4. TCF-1 as a pioneer factor in T cells: [https://www.cell.com/immunity/fulltext/S1074-7613\(18\)30033-5](https://www.cell.com/immunity/fulltext/S1074-7613(18)30033-5)

Experimental candidates are required to hold a PhD in biomedical sciences and track-records in molecular biology, immunology, or biochemistry. Experience with latest genomics and/or imaging technologies will be viewed favorably. Potential training opportunities in computational sciences exist for the experimental trainees.

Computational candidates are required to hold a PhD in engineering, physics, computer science, or related quantitative programs. Expertise with the Linux environment and programming in Python and R are required. Trainees with track-records in machine learning or statistics are encouraged to apply.

Penn has increased minimum postdoctoral stipends in July 2023 which has led to the entry level stipend of \$65,000.

Interested applicants should submit a CV to vahedi@penncell.com