



Student Assistant II – BioFrontiers Institute Peleg Lab

Job Summary

The Peleg Lab at the BioFrontiers Institute is seeking a Student Assistant to perform ongoing firefly research.

We are located in the Jennie Smoly Caruthers Biotechnology Building (JSCBB) on East Campus.

Further information on the Peleg Lab can be found here: <https://www.peleglab.com/>

Who We Are

At the University of Colorado BioFrontiers Institute, researchers from the life sciences, physical sciences, computer science, and engineering are working together to uncover new knowledge at the frontiers of science and partnering with industry to transform their discoveries into new tools. The Institute integrates faculty members from eleven academic departments, allowing them to work across fields. BioFrontiers drives innovation without boundaries.

What Your Key Responsibilities Will Be

We are seeking a student to assist in:

- Unsupervised spatial motif classification in photuris forresti fireflies.
- Big data processing of firefly videos into modified long exposure stacks for 2D species classification models.
- Data annotation of firefly flashes in video to validate DNN flash detection models.

What You Should Know

A candidate has been identified for this position. However, all applications will be reviewed and considered before a final hiring decision is made.

What We Can Offer

\$20 per hour.

What You Will Need

- Student should be currently pursuing a computer science master's degree, and be very familiar with unsupervised data analysis techniques in Python.
- Prior experience working with ecological data and spatiotemporal reconstruction data is required.

Application Instructions

Please email your resume and cover letter to Kristen Smith at Kristen.p.smith@colorado.edu.