

SUMMER RESEARCH PROGRAM



THERMOFLY.ORG



Join us for a summer of biology research investigating the epigenetic, molecular, and organismal mechanisms associated with developmental plasticity, stress response, and thermal tolerance in everyone's favorite lab model organism, *Drosophila melanogaster*.



TEETS LAB

Lexington, Kentucky

- Critical thermal limits
- Physiology of cold tolerance
- Selection experiments



WATERS LAB

Providence, Rhode Island

- Metabolic rates
- Brain dissection
- Thermal performance



AXEN LAB

Newport, Rhode Island

- Biogeography
- Temperature adaptation
- Thermal limits



CAHAN/FRIETZE/ LOCKWOOD LABS

Burlington, Vermont

- Epigenetics
- Sequencing
- Thermal limits

Program dates: June 1 – July 30, 2021

Eligibility*:

College undergraduate students who attend one of our host institutions or who are residents of EPSCoR jurisdictions including: Alabama, Alaska, Arkansas, Delaware, Guam, Hawaii, Idaho, Iowa, Kansas, Kentucky, Louisiana, Maine, Mississippi, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Dakota, Oklahoma, Puerto Rico, Rhode Island, South Carolina, South Dakota, Vermont, Virgin Islands, West Virginia, or Wyoming.

***The format of this program is contingent on whether there are restrictions on travel and housing due to Covid-19. Students local to the participating institutions are especially encouraged to apply.**

Stipend:

Participants will receive a \$4000 stipend.

Travel and Housing:

Contingent on covid-19 conditions, free travel to and from the host institution and on-campus housing will be available for all participants.

Host institution:

In the application, students are asked to rank their preference for the host institution/lab where they would like to be located.

Mentoring/training:

Group and individual research activities are designed to provide field, laboratory, and data analysis training to all participants.

Former experience:

At least one year of college-level biology is expected, but no prior research experience is needed. Members of traditionally under-represented groups in STEM are particularly encouraged to apply.

Applications due March 1, 2021
Apply online: www.thermofly.org

