



# Professional Development Workshop

June 7<sup>th</sup> – 9<sup>th</sup>

Application deadline May 21<sup>st</sup>



## Call for applications to Discover the Microbes Within! with The *Wolbachia* Project

The ***Wolbachia* Project** ([vu.edu/wolbachia](http://vu.edu/wolbachia)) provides real-world research experiences for students and teachers in a five-part lab series spanning biodiversity, biotechnology, and bioinformatics. You are invited to join us and learn new techniques that can supplement your project-based biology curriculum and train students for future careers in research, healthcare, computational biology, and industry.

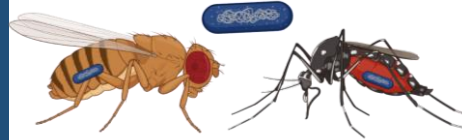
**Who:** High school teachers & administrators in middle TN; preference given to Biology, CTE BioSTEM, & AP Research teachers

**What:** Hands-on workshop

**When:** June 7<sup>th</sup> – June 9<sup>th</sup>;  
9am – 4pm daily

**Where:** Virtually! Participants will pick up equipment from Vanderbilt University prior to the workshop and participate from their homes or classrooms.

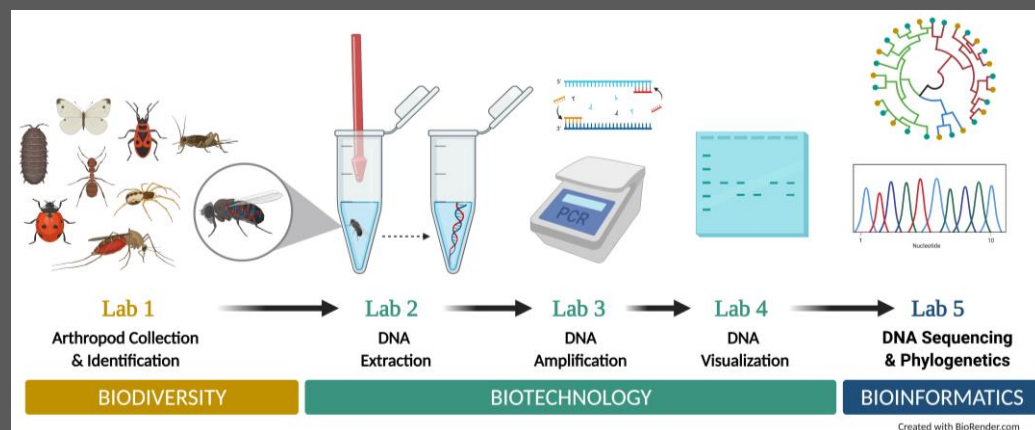
**Cost:** Free



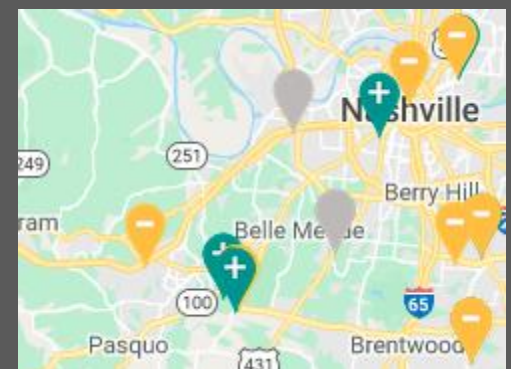
***Wolbachia*** is a symbiotic bacterium that can be found in about half of all arthropods. *Wolbachia* is associated with reproductive manipulations in its animal host and is currently being deployed as a vector control agent to combat mosquito-borne diseases.

### Topics covered:

- Taxonomic classification
- Biodiversity databases and electronic lab notebooks
- Hypothesis-driven research and the value of controls
- Vector control and bioethics
- Hands-on Biotech protocols:
  - DNA extraction
  - PCR
  - Gel electrophoresis
  - DNA Sanger sequencing
  - Bioinformatics
  - Build a phylogenetic tree



Workflow of The *Wolbachia* Project



Arthropods found and catalogued in The *Wolbachia* Project Database from middle TN.

**Submit an application via [Google Form](#)** by 11:59pm on May 21<sup>st</sup>. Scan the QR code to learn more about the workshop. Space is limited due to availability of loaner equipment and reagents. *If you are interested in hosting a future Wolbachia Project workshop in your school/district, email [wolbachiproject \(at\) vanderbilt.edu](mailto:wolbachiproject@vanderbilt.edu).*



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