

Medical Entomology Laboratory Fellowship (U.S. Air Force, Dayton, OH)

The Air Force entomology laboratory at Wright-Patterson Air Force Base receives public health surveillance samples from Air and Space Force installations worldwide. As an ORISE participant, you will provide surveillance and research support primarily by processing, testing and analyzing medically important arthropods received by the laboratory. Arthropods received by the lab are tested for vector-borne and zoonotic diseases including bacteria, viruses and parasites. You may evaluate and/or use different processing, testing and analytical approaches across vector types (ex. mosquitoes, ticks), on different instrument platforms, or may construct microorganism or arthropod phylogenies. You may also have the opportunity to optimize SNP (single nucleotide polymorphism) genotyping assays such as for 1) insecticide resistance allele determination in mosquitoes, or 2) deer/human variant status in *Anaplasma phagocytophilum*. DNA barcoding will be used to support identification of damaged or novel samples. Opportunities for host bloodmeal identification, virus sequence recovery from degraded samples or exploration of tick cryptic diversity (Sanger sequencing approach) are available based on your background and interests. You may also support arthropod identification activities or participate in fieldwork to collect arthropods such as ticks, mosquitoes or other vectors of interest. Participant must begin the fellowship term NLT 29 SEP 2023.

Yearly stipend: \$57,000 -62,000

A dislocation allowance, health insurance supplement and conference attendance funding is also included. See the opportunity announcement for details:

www.zintellect.com/Opportunity/Details/USAFSAM-2023-0003

Mentor: Leah Colton, PhD / leah.colton@us.af.mil / 937-938-3078 (call or email with questions)