

**ENVIRONMENTAL SPECIALIST II - GIS**  
**(Mosquito Control: GIS and Database)**

**Must have the physical, developmental and mental ability to perform job tasks, work efforts, responsibilities and duties of the job illustrated below:**

**MAJOR FUNCTION**

Develop specialized maps utilizing geographic information systems, data bases and graphic skills to enhance mosquito control operations and conducting inspections and treatments in assigned zones. Coordinate with IT department in advising mosquito control on software purchases and trouble shoot software problems. Conduct mosquito control inspection and treatment of assigned zones.

**ILLUSTRATIVE DUTIES**

Create and update ULV spray zones and mosquito trap data maps. Create and upload spray mission data to website and maintenance of mosquito control section on the county website.

Collects, monitors and analyzes field and laboratory data from mosquito survey and control programs and utilizes the information to implement ground, aerial and permanent control procedures. Assists in evaluating existing mosquito breeding habitats and develops methods for permanent mosquito control.

Assists in creating, updating and distributing public information materials. Assists the Entomologist/Biologist in conducting public outreach events and presentations for public education. Prepares and analyzes reports, maps and graphs for program evaluations and development. Assists in directing the work of the technical staff. Maintains and trouble shoots data base and helps training of technicians on its use. Conduct inspections and service requests in assigned zones.

Conduct monthly inventory of pesticides and oversees the chemical room.

Performs related duties as required.

**KNOWLEDGE, ABILITIES AND SKILLS**

Knowledge of GIS and ESRI Arc GIS Desktop 1, 2 and 3 including GIS programming with Python.

Knowledge of mosquito surveillance, identification and control methods. Knowledge of the basic concepts of biology, entomology, invertebrate zoology, botany, and/or aquatic biology. Knowledge of the occupational hazards and safety precautions necessary in utilizing insecticide materials. Ability to work independently. Ability to learn and stay informed of current developments in mosquito abatement.

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**KNOWLEDGE, ABILITIES AND SKILLS (continued)**

Ability to interpret research studies into operational data. Ability to learn the principles, methods and equipment utilized in mosquito control. Ability to read topographic maps, and blueprints. Ability to learn the applicable county, state and federal ordinances, laws and regulations. Ability to use a computer. Ability to plan and direct the work of others. Ability to work around various chemicals. Ability work in all weather and environmental conditions (i.e.; sun, rain, cold, swamps, ditches, etc.). Ability to maintain an effective working relationship with the public and other employees. Ability to communicate effectively both orally and in writing.

**MINIMUM QUALIFICATIONS**

Bachelors' Degree in biology, entomology, or a related field from and an accredited four (4) year college or university and have a minimum of two (2) years of biological and related program work experience within this classification. A comparable amount of training and experience may be substituted for the minimum qualifications. Must have a current Public Health Pest Control License or be able to obtain with six months of employment.

Must have a valid driver's license and be able to secure a valid Florida driver's license at the time of employment.