



Position Description

Position title: Rotational Field Entomologist

Purpose of position: Individuals selected for this position will provide onsite supervision for vector control operations in Papua New Guinea on a rotational basis.

Organizational Relationships: This position is with Mosquitozone, a company that has contracted with ExxonMobil to provide vector-control services during the construction phase of a natural gas pipeline from the highlands of Papua New Guinea to Port Moresby. Selected individuals would report directly to the project manager for Papua New Guinea, located in Houston, TX.

Duties include: Supervision of all aspects of vector control and pest control operations in the assigned location. Specific supervisory duties would include:

1. Mosquito Surveillance
 - a. landing counts; resting box collections and light trap collections for mosquito collections
 - b. larval mosquito collections
 - c. Identification to genus and if required, species
2. Lice/flea/chigger surveillance
 - a. (black plate, rodent collections and flea/lice collections
 - b. Identification to genus and if required, species
3. Control Techniques
 - a. Adult mosquito control
 - i. ULV sprayers (truck mounted, ATV mounted and hand-held
 - ii. Indoor residual treatments
 - iii. Insecticide treated bed nets and clothing
 - iv. Barrier sprays
 - v. Source reduction
 - vi. Behavior modification
 - vii. Repellents
 - b. Larval mosquito control
 - i. Larvicides (oils, monomolecular films, biological, synthetic hormones, and traditional insecticides (organophosphates and carbamates)
 - c. Lice/Flea/Chigger control
 - i. Source reduction

- ii. Insecticides
 - iii. Treated clothing
- 4. Pest Control
 - a. Household insects (cockroaches, silverfish, stored products pests...)
 - b. Rodent control (exclusion, baits, trapping)
 - c. Snake control (exclusion, trapping, removal, personal protection)
 - d. Other animals as may be required
- 5. Poisonous Plants
 - a. Provide training and education material on sight identification of poisonous plants
- 6. Record Keeping
 - a. Must accurately report surveillance and control data using provided work sheets and or web-based reporting.
- 7. Equipment Maintenance and Repair
 - a. While trucks and other vehicles will be maintained through a carpool system, the individual will be responsible for general maintenance and troubleshooting of spray equipment and surveillance equipment
 - i. Equipment calibration
 - ii. Adhering and documenting maintenance of spray and surveillance equipment
 - iii. Identifying and replacing broken components
 - iv. Maintaining accurate and adequate supply parts inventory
- 8. Training
 - a. Provide training on the effective and safe use of vector surveillance and control equipment.
 - b. Safe handling of pesticides
 - c. Proper use and maintenance of personal safety gear

Selection Criteria:

- 1. Essential Elements
 - a. M.S. in entomology
 - b. Knowledge of vector control field operations, including vector surveillance techniques, control techniques, and safety precautions under field conditions
 - c. Experience in an operational setting – four or more years
 - i. Military Training/Deployment
 - ii. Mosquito Abatement experience at manager level
 - d. Valid Passport
 - e. Up-to-date vaccinations as required by contractor
 - f. Willingness and ability to take malaria chemoprophylaxis
 - g. Willingness to travel to and work in foreign countries under harsh conditions for one to two months at a time
 - h. Willingness to provide vector/pest control services that could involve contact with poisonous snakes, other dangerous reptiles and arthropods that transmit diseases.

- i. Physically able to work long hours under hot humid conditions, characteristic of a tropical jungle.
 - d. Working familiarity with Microsoft products
2. Desirable elements:
- a. PhD in Entomology
 - b. Experience working in South Pacific area as an entomologist
 - c. Experience in calibration and operational use of a wide variety of vector control equipment
 - d. Working familiarity with GIS (ESRI products)
 - e. Familiarity with WEB based reporting
 - f. State licensure as a mosquito control supervisor or equivalent

Interested parties should submit their resume to

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Resumes may be submitted electronically