

## Project Scientist

ROBERT SMITH

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### Objective

Professional Environmental Project Manager with 8 years of project management experience in the private sector with an emphasis in environmental operational compliance.

### Skills

Microsoft Office, Data Analysis, Analytics, Event Planning.

### Work Experience

#### Project Scientist

**San Joaquin Valley Agricultural Sciences Center, U.S. Department Of Agriculture [?]  
Agricultural Research Service (USDA-ARS) - 2006 - 2019**

- Develop soil fumigation method, evaluate fumigant distribution in a soil profile, and determine the environmental fate of fumigants.
- Improve pest control efficacy (weeds, nematodes, and pathogens) with pesticide and non-chemical alternatives.
- Optimize water and nutrient management to cope with drought issues, nitrate leaching, and N<sub>2</sub>O and NH<sub>3</sub> emission loss.
- Work closely with crop industries, regulation agencies, and scientists and faculty at the USDA-ARS and University of California systems.
- Conduct extension activities, supervise technicians and students and apply for grants.
- Optimize agricultural practices including plastic mulching, irrigation, hydroponics, biochar application.
- Evaluate bench-and pilot-scale treatability studies to optimize microbial populations for contaminated soils and sediments.

#### Project Scientist

**University Of California, Davis - 2004 - 2006**

- Designing & conducting lab bioassays, including behavioral and ecological studies, lab management, supervising students, data analysis, director of mosquito insectary, writing protocols & reports, publications Accomplishments I am currently employed as "Project Scientist" at the University of California, Davis, working on mosquito behavior and developing new repellents for mosquitoes.
- Have been working in the area of insect behavior for years and have extensive experience in designing, testing and optimizing olfactometers, wind tunnels, cage assays, green house experiments and semi-field and field settings.
- Have used these techniques in order to measure insect responses to attractants or repellents, screening various compounds derived from plant sources, or testing efficacy of our synthetic blends for an insect species.
- Have also carried out analyses with electroantennography, GC/MS and other techniques.
- In addition to my routine research duties, I am also in full charge of UC Davis mosquito rearing facility, and diet development and optimization is often required in an insect rearing facility.

- Training students, managing the lab, collaborating with the colleagues in other groups for writing research grants and also preparing presentations and manuscripts for scientific publications are among other tasks of mine.
- Skills Used Establishing a mosquito colony, bioassays, olfactometry, GC/MS, electroantennography, data analysis..

## Education

Doctor of Philosophy in Agronomy - 1999(Swiss Federal Institute of Technology Zurich - Zurich, ZH)