

# Careers for Insect Biologists

## How Insect Biologists work

Basic life sciences

Pest management

Environmental & ecosystem sciences

Regulatory sciences

Education

Specialties

Feed the world

Plant and animal sciences; government, university, industry research

Plant and animal pest management, post harvest, food processing & food industry; basic and applied research; extension

Climate change, pollinator health; basic & applied research; government, universities, industry

Pesticide training & certification, pest surveillance, monitoring and quarantine; FDA, USDA, EPA, state agriculture and regulatory agencies

Ag pest management; universities, extension, industry

Pest consultant, beekeeping

Prevent spread of disease

Vector biology, pharmaceuticals; government, university, industry research

Vector & disease management, basic and applied research; extension

Climate change; basic & applied research; government, universities, industry

Vector & disease monitoring; CDC, FDA, EPA, US military, state and local public health agencies

Vector & disease management; government, universities, extension, industry

Public health consultant

Protect people and property

Pesticide modes of action, toxicology

Urban and industrial pest biology, toxicology, pesticide resistance management; government, university, industry research; extension

Climate change; basic & applied research; government, universities, industry

Pesticide training & certification; USDA, EPA, state agriculture and regulatory agencies

Urban pest management; government, universities, extension, industry

Pest management operator, arborist, business owner

Preserve species & protect the environment

Population biology, insect ecology & pathology

Invasive species management; government & university research; extension

Climate change; natural resource management, biodiversity & ecosystem services; basic and applied research; conservation agencies

Natural resource monitoring; USFW, NPS, DOI, USFS, EPA, state departments of natural resources and environment

Natural resource and environmental management; government, universities, extension

Environmental consultant; museum curator

Solve crimes

Forensic practices and standards; DOJ, state law enforcement agencies

Forensic practices and standards; government, universities

Forensic science

Teach science education

STEM education, life science education & outreach; universities, K-12, museums, zoos, butterfly houses, nature centers

Teachers and educators; biological illustrators; technical writer/editor

Other

Biomedical and biotechnology; government, university, industry research

Pharmacy, medicine, veterinary sciences

What Insect Biologists do

# Insect Biologist jobs and areas of specialization

Life sciences	Pest management	Environmental sciences	Regulatory sciences	Education	Specialties
Pesticide discovery	Pest management specialist	Environmental scientist	Quarantine officer	Science educator	Bee keeper
Toxicologist	Field crops entomologist	Insect taxonomist	Port inspector	Extension agent	IPM field scout, consultant
Population biologist	Horticultural entomologist	Biodiversity specialist	Survey entomologist	STEM outreach specialist	Bioillustrator
Insect ecologist	Ornamental entomologist	Conservation organization specialist	Public health specialist	Professor	Technical writer/editor
Insect pathologist	Turfgrass entomologist	Environmental consultant	Pesticide trainer	Ecotourism specialist	Museum curator
Molecular biologist	Veterinary/medical entomologist		Regulatory specialist		Arborist
Geneticist	Urban & industrial pest management		Biosecurity specialist		Forensic entomologist
Cell biologist	Forest entomologist				Insect rearing & colony maintenance
Biochemist	Postharvest entomologist				Business owner
Immunologist	Food industry entomologist				
Evolution & systematics	Insect diagnostician				
Spatial biologist	Crop consultant				
Arthropod genomics	Vector biologist				
	Pesticide development				
	Pesticide resistance management				
	Ag chemical & seed industries				
	Agribusiness				