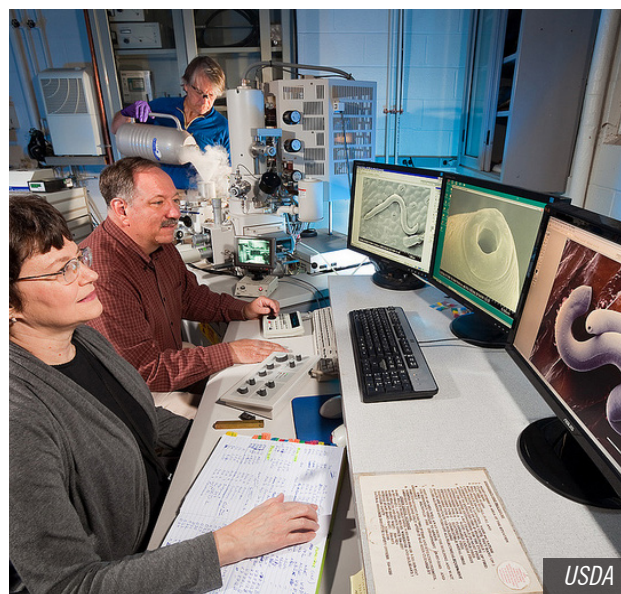


# NEMATOLOGIST

A nematologist specifically studies nematodes and their interaction with plants. Nematodes are microscopic round worms that can transmit diseases and/or attack soil, water and insects.

## WHAT RESPONSIBILITIES WILL I HAVE?

- Develop methods and apparatus for securing representative soil samples containing nematodes, and for isolating, mounting, counting, and identifying specimens
- Investigate and develop pest management and control measures, such as chemical, hot water and steam treatments, soil fumigation, biological crop rotations, and cultural practices
- Develop microbial nematicide products including various types of soil applications and seed treatments that will measure efficacy against nematodes
- Determine the mode of action of our nematicides – effects on eggs, egg laying, juveniles, adults, etc., direct or indirect effects, prevention of gall formation or feeding, and others
- Monitor literature and maintain academic and industry contacts
- Contribute to writing of patents, grants and collaborative research agreements
- Maintain an accurate and up-to-date, witnessed written account of experimental protocols and results
- Maintain a high level of scientific skills and knowledge of new technologies and research
- Supervise lab assistants and interns
- Provide expertise and research learnings about nematodes to farmers
- Look at potential nematode resistant genes that could possibly be incorporated into crops



## WHAT EDUCATION & TRAINING IS REQUIRED?

Various undergraduate degrees are acceptable including biology, entomology or ecology

## THE FOLLOWING HIGH SCHOOL COURSES ARE RECOMMENDED...

Agricultural education, horticulture, mathematics, biology, chemistry, environmental sciences

## TYPICAL EMPLOYERS

Universities/colleges, agricultural seed and chemical companies, government agencies

## FUTURE JOB MARKET/OUTLOOK



## SUGGESTED PROFESSIONAL ORGANIZATIONS & ASSOCIATIONS

- Soil Science Society of America
- Entomological Association of America

## AVERAGE ANNUAL FULL-TIME SALARY

\$67,000