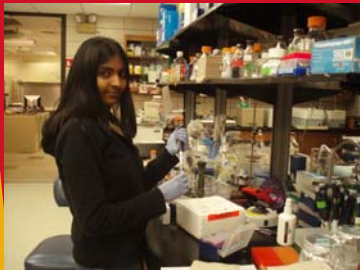


WHAT IS SCIENCE WITH PRACTICE?

- Links opportunities & work experiences within the College of Agriculture
- Gain hands-on experience
- Learn about research and related practices
- Earn money and academic credit!



Aarohi Zokarkar
Senior, Microbiology
Dr. W. Allen Miller
Mentor, Plant Pathology

Aarohi learned techniques in molecular biology and plant virology while working to identify the suppressor of gene silencing in Barley yellow dwarf virus.



SCIENCE WITH PRACTICE

Contact the Science With Practice Team
(swpteam@iastate.edu) for more information!

Iowa State University
College of Agriculture and
Life Sciences

SCIENCE WITH PRACTICE

A Learning and Work
Experience Program
in Research & Related
Laboratories

Funded by the
ISU Agricultural Endowment Board
and
Dean of the
College of Agriculture and Life Sciences

PURPOSE

The purpose of SWP is to provide opportunities for students in the College of Agriculture and Life Sciences to learn and work experientially with faculty and staff in university research laboratories, farms, greenhouses, and other units through a planned education and work experience program.

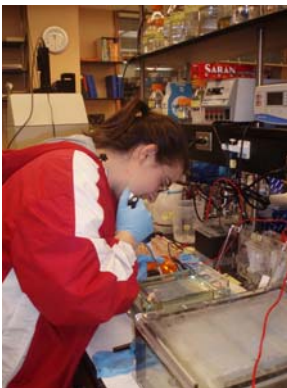


Matthew Helgeson
Senior, Horticulture
Dr. Bill Graves
Mentor, Horticulture

Matthew worked with an on-going research project involving *Dirca occidentalis*, a rare shrub endemic near San Francisco Bay.

Jacqueline Farrel
Senior, Zoology
Dr. Erik Vollbrecht
Mentor, GDCB

Jacqueline gained laboratory and research experience while working on a maize research project.



STUDENT

Learning Outcomes

- Acquire technical agricultural skills.
- Develop skills related to:
 - Data collection
 - Research procedures
 - Human resource management
 - Written and oral communication
 - Time management
 - Organization
 - Team work
 - Data analysis
- Develop an understanding of the linkages between research and practical real-world situations and problems.



Justine Hosch
Freshman, Animal Science
Mrs. Sherry Hoyer
Mentor, Animal Science

Justine worked in the Iowa Pork Industry Center publicizing educational events.

Requirements for Academic Credit

- Develop a signed agreement outlining purpose statement, goals, and expectations.
- Conduct 10 hours of experiential learning and work experience per week.
- Attend monthly SWP seminars.
- Submit bi-weekly journal entries describing activities and experiences.
- Create a final portfolio and report as a summary of the SWP project.
- Develop and participate in a poster presentation to share the experience.

MENTOR

Benefits

- Matching funds provided by Science With Practice program.
- Better trained and informed work force.
- More open communication lines with student employees.
- Opportunity to attract and develop student interest in research.

GETTING STARTED

- Contact Science With Practice team (swpteam@iastate.edu).
- Attend an orientation workshop at the beginning of the semester.
- Develop mentor/mentee relationship.
- Register for Science With Practice course to receive academic credit.
- Create a student learning agreement and project.

For more information:

Email the SWP Team
(swpteam@iastate.edu)

Visit our website
(www.ageds.iastate.edu/SWP)