University Honors College
&
College of Agricultural Sciences
February 28, 2014
Megraw Lab
Botany & Plant Pathology (BPP)

megrawm@science.oregonstate.edu
We are looking for an undergraduate with solid **Java programming skills**

Quarter-long training opportunity: Applicant will learn how to create user-friendly, statistically correct **bioinformatics software**— and the **biology** behind it!

A successful experience will result in publication **authorship**, and potential for an hourly position in the lab

Email Taj Morton ([mortont@onid.oregonstate.edu](mailto:mortont@onid.oregonstate.edu)) for more information
What are the mechanisms responsible for the origin and maintenance of biological diversity?

How will plant communities respond to anthropogenic climate change and habitat alteration?

Field work, genomics, bioinformatics
The many faculty associated with the Sustainability Degree program do project related to climate change, carbon storage in soils, and forest and agro-ecosystem processes.
Fisheries and Wildlife Sciences

Dr. Selina Heppell, Dr. Scott Heppell

- Nancy Raskauskas
  - Thermal refugia for coho salmon
- Chrissy Murphy
  - Effects of upwelling on intertidal communities in Oregon and Chile
- Wren Patton
  - Diving patterns in loggerhead sea turtles
- AnnaRose Adams
  - Coral reef communities in Bonaire
- Erin Peterson
  - Trends and extinction risk for ESA-listed Oregon chub
Help support the over 7B people on earth in a direct way. Jobs on farms (small and large), as crop advisors, in basic and applied research, government, and more.

Crop Science/Agronomy/Weed Science

Food  Feed  Fiber  Fuel
Vegetable Breeding and Genetics

Jim Myers
Department of Horticulture
myersja@hort.oregonstate.edu
SOIL SCIENCE

ANSWER THESE AND OTHER QUESTIONS...

• Why does some soil resist wetting?
• How many soil bacteria in teaspoon of soil?
• A tree falls in forest, does it make a soil?
• What determines soil fertility?
• Do trees ‘eat’ or ‘drink’ their calcium from soil?
• Can you visualize soil using art techniques?
Wine Microbiology Research
James Osborne

- Applied microbiology research with focus on understanding impact microorganisms have on wine quality
  - Beneficial microorganisms – *Saccharomyces cerevisiae*, *Oenococcus*
  - Spoilage microorganisms – *Pediococcus*, *Brettanomyces*
- Collaboration with Oregon Wine Research Institute team including viticulturists, flavor chemists, sensory scientists, Oregon wineries & winemakers
James Sterns - Applied Economics
- Researching our agri-food systems -

**Food**
- Defining and Certifying Food Attributes
- Market Outlets for accessing food products
- Perceptions and preferences

**Politics**
- Defining research programs
- Shaping market outcomes
- Picking winners and losers

**Money**
- Research funding
- R/D investments relative to market volumes and market shares
- Distribution of benefits and costs

Your role – Collect and then connect “the dots”!
The Sidlauskas Lab
Biodiversity, Evolution and Conservation of Freshwater Fishes
brian.sidlauskas@oregonstate.edu
Monique Udell, PhD
Monique.udell@oregonstate.edu

Animal behavior & cognition
Human-animal interactions
Canine social development
Animal assisted therapy

Animal & Rangeland Sciences

Visit: http://anrs.oregonstate.edu/

Many of our faculty supervise undergraduate student researchers
Applied Economics Department

Beau Olen – Faculty Research Assistant, Center for Agricultural and Environmental Policy (CAEP)

JunJie Wu – Professor, Director of CAEP

Natural resource and environmental economics, international trade and marketing, rural economics and poverty, and productivity analysis and measurement

Teaching (M.A., M.S. and Ph.D.), research, and extension

econphd.net ranked OSU #9 in the world in resource and agricultural economics

OreCal – collaboration between CAEP and the University of California Agricultural Issues Center at UC Davis (research focusing on U.S. farm bill)

OreCal is one of five agricultural and resource policy centers funded by USDA

Contact me: olenb@science.oregonstate.edu
Michelle Anne Kutzler, DVM, PhD, DACT
Associate Professor of Companion Animal Industries
Department of Animal and Rangeland Sciences

Applied & basic research in small & large animal reproductive physiology

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Current studies in our laboratory involve work with domestic dogs, chickens & reindeer, feral cats & wild horses
Honey Bee Health
Honey Bee Nutrition
Honey Bee Pollination

Ramesh Sagili
Department of Horticulture
sagilir@hort.oregonstate.edu
Crop pests - Management using ‘alternative’ to insecticide tactics

Bark beetle pest
Killed with fungi and nematodes

Crop pollination - with ‘alternative’ to honey bee pollinators

Native bumble bees
Which crops have they pollinated?