FUTURE RIVERS

Training a scientifically innovative, communication-savvy workforce for sustaining food–energy–water services in large and transboundary river ecosystems.

From large lakes where fish populations thrive to running rivers that generate electricity, freshwater ecosystems supply our world with critical food, water, and power. With a changing climate and environment, little is known about potential impacts on communities and ecosystems. Enhancing the sustainability of these essential freshwater resources by developing a dynamic workforce is necessary in the face of change.

STUDENT PROGRAM

The Future Rivers program prepares students to be fluent in 21st century data science approaches and to understand interactions among and within food, water, and energy sectors in order to advance environmental sustainability.

The Future Rivers training program will initially support four student cohorts as they prepare to effectively safeguard freshwater ecosystem services for a growing world population.

STUDENT BENEFITS

- New technical and data science skills
- Innovative interdisciplinary and international research opportunities
- Enhanced science communication skills
- Cultural awareness and inclusivity within the STEM field
- Professional network with scientists and non-academic practitioners

PROGRAM PARTNERS

College of Engineering
College of the Environment
EarthLab
eScience Institute
Freshwater Initiative
Microsoft Research

National Oceanic and Atmospheric Administration (NOAA)
Pacific Northwest National Laboratory (PNNL)
The Nature Conservancy
United States Geological Survey (USGS)


PROGRAM DETAILS

NEW STEM CAREER SKILLS

Data science training
• Coursework requirement
• Hackathon weeks

Opportunity for innovative interdisciplinary integration
• Seminar series
• Graduate seminar class
• Week-long Summer Research Institutes (U.S. and international)

Improved science communication skills
• One-day communication workshop
• Alternative media for science communication workshop
• Two-day in-depth communication training

Increase cultural awareness and inclusivity
• STEM inclusivity workshops

FUNDING

Possibility of 18 months of stipend during participation in the core program

Potential for other opportunities and funding after completing the core program. These are open to everyone, irrespective of whether they were funded to participate in the core program:
• 1-year stipend
• Travel or research funds
• Skill-building opportunities

COMMUNITY

Develop a community of colleagues and friends through quarterly social meetups, seminars and coursework, and intensive interdisciplinary research

PROFESSIONAL NETWORKING

Social and educational activities (seminars, meetings, book talks, etc.)
Summer Institutes will have scientists and practitioners working together on a common problem with ample time for networking
Access to Data Science Career Fair and Northwest Data Science Summit

STUDENT REQUIREMENTS

Complete the core program within 18 months, which consists of:
• Coursework (3 classes)
• Participate in seminars
• Attend one Summer Institute
• Complete one communication workshop
• Complete one STEM inclusivity workshop

JOIN US

Applications are now open!
Join our 2020 cohort by applying online at:
earthlab.uw.edu/future-rivers
Apply by January 31, 2020

For more information, please contact us at futurerivers@uw.edu