# DataFEWSion Graduate Traineeship

### Innovations at the Nexus of Food Production, Renewable Energy & Water Quality

DataFEWSion is an interdisciplinary graduate traineeship focused on research at the nexus of Food, Energy and Water Systems (FEWS). The program provides students with data analytics and decision modeling knowledge combined with professional skills needed to address the complexities around the FEWS nexus, to produce implementable solutions for the real world.

#### **Benefits to Trainees**

- Perform world-class interdisciplinary research
- Participate in a Graduate Learning Community of highly motivated and talented graduate students
- Develop technical expertise across disciplines with data science and decision modeling at the core
- Develop a knowledge base to address complex issues and effect change, with an awareness of social, political and economic impacts
- Develop communication skills to address a diverse audience from producers to policy makers to industry executives
- Prepare for career paths in academia, industry, NGOs, or entrepreneurship

#### Traineeship



DataFEWSion program is structured to develop new leaders with technical knowledge, professional skills and cross-disciplinary communication. The key components of the Traineeship are:

- Research employing data analytics and decision modeling at the FEWS nexus.
- Graduate Learning Community:
  - Workshop series on understanding the issues, interacting with stakeholder and developing professional skills to implement innovations.
  - Small group engagement in interdisciplinary sharing, communication and peer review.
- Graduate certificate based on coursework in FEWS nexus issues; communication; entrepreneurship; data analytics & visualization; system modeling; and social science.

#### How to Apply

Students interested in pursuing graduate study and professional training at the FEWS nexus are encouraged to explore the DataFEWSion website at www.datafewsion.iastate.edu. Admittance to the DataFEWSion Traineeship program is contingent upon acceptance to a relevant ISU MS or PhD program.

DataFEWSion Traineeship Scholarships are available to select PhD students, enrolled or enrolling to ISU. The financial package includes \$34,000 stipend, full tuition waiver and health insurance for one year. Consideration is limited to US citizens and permanent residents.

Students from groups traditionally under-represented in science and engineering are especially encouraged to apply.



For more information or to apply visit: www.datafewsion.iastate.edu



or email: datafewsion@iastate.edu

## **DataFEWSion Graduate Traineeship**





The National Science Foundation Research Traineeship (NRT) program is designed to encourage the development and implementation of bold, new, potentially transformative, and scalable models for STEM graduate education training. The NRT program also seeks to catalyze and advance cutting-edge interdisciplinary research, and prepare STEM graduate students more effectively for multiple research and research-related career paths.