Workforce Development Team @ EPSCoR iUtah

Innovative Urban Transitions and Arid Region Hydro Sustainability

iUtah EPSCoR Component

(e.g. research, CI, workforce development, etc.)

- *Purpose*
- Enhance the STEM workforce by developing programs that will inspire students to choose STEM careers, promote retention in STEM degrees, and enhance success of faculty in STEM disciplines

- *EPSCoR Vision*:
- A strong STEM workforce is critical to building and sustaining research capacity and economic growth.

iUtah EPSCoR Component

(e.g. research, CI, workforce development, etc.)

- Team Leads:
  - Tami Goetz (coordinator)
  - Holly Godsey (EAST-like program)
  - Bob Ramsey/Chris Keleher (industry internships)
  - Louise Stark (Summer Institutes)
  - Brian Avery (undergraduate research)
  - Todd Crowl (Faculty Research Fellowships)
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- Researchers at R1 and PUI institutions:
- Industry partners

iUtah EPSCoR Component Goals

- integration of research and education;
- near-peer mentoring;
- encouraging diversity;
- public-private partnerships

iUtah EPSCoR Component Objectives

- 1) K-12 students: Engage at least 200 students
- 2) K-12 teachers: Engage at least 40 teachers annually
- 3) Undergraduate students: Engage at least 30 undergraduate students annually
- 4) Graduate students: Engage at least 20 graduate students annually
- 5) Postdoctoral researchers: Engage at least 3 postdoctoral scientists
- 6) Faculty: Provide research funds for at least 10

iUtah EPSCoR Component Activities

- *UTAH-Water, the Environment, Science and Teaching (WEST) Fellows*
- *iUTAH Summer Institutes*
- *Collaborative Research Experiences for Undergraduates*
- *Industry Internship Program*
- *Water Sustainability Graduate Research Fellows*
- *iUtah Postdoctoral Fellowships*
- *iUtah Faculty Research Fellowships*
- *Annual iUTAH Symposium*

iUtah EPSCoR Component Outputs

- Increase in students entering STEM pathways
- Increase in students graduating with STEM degrees (secondary and post-secondary)
- Increased number of Utah companies offering internships
- Increase in graduates entering STEM-based research activities
  - Internship participation
  - Near-peer mentoring
  - Undergraduate research
  - Graduate school
  - Employment in Utah STEM-based companies
- Increased community awareness
  - Increased participation in STEM events

Possible Challenges

- Industry internship participation (students and companies
- Activity monitoring
- Assessment
  - Metric development
  - Tracking data
- Dissemination of research and internship opportunities

Anticipated Outcomes or Impacts

- Greater support of university and industry research activities
- Increased effectiveness of research activities resulting in increased extramural funding and commercialization
- Increased participation in STEM activities
- Increased awareness of the importance of STEM education and workforce efforts that results in increased State funding