SP@ISU provides and coordinates opportunities and resources to assist faculty as they develop broader impacts plans and integrate broader impacts activities into their research programs. Postdoctoral research associates and advanced graduate students also participate as they prepare their professional credentials for the professoriate. SP@ISU fosters collaboration and integration across projects and programs, and it is advancing the conversation on faculty rewards and recognition for broader impacts work. The results of these efforts will include more competitive NSF proposals, a new generation of faculty who integrate broader impacts work with their research, and increased participation of those traditionally underrepresented in science, technology, engineering, and mathematics (STEM)—all outcomes that will strengthen the professoriate.

Social Network Analysis: Measurement of Collaboration

Coverage of Broader Impacts Categories

<table>
<thead>
<tr>
<th>Category</th>
<th>References (n)</th>
<th>Percent Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advance Discovery</td>
<td>86</td>
<td>9.8</td>
</tr>
<tr>
<td>Broader Participation</td>
<td>33</td>
<td>3.3</td>
</tr>
<tr>
<td>Enhance Infrastructure</td>
<td>28</td>
<td>3.0</td>
</tr>
<tr>
<td>Broader Dissemination</td>
<td>37</td>
<td>2.9</td>
</tr>
<tr>
<td>Benefits to Society</td>
<td>60</td>
<td>8.0</td>
</tr>
</tbody>
</table>

Broader Impacts Statements in Abstracts

Using qualitative content analysis, 91 abstracts for awards funded by NSF to ISU were examined for the types and frequency of broader impacts language.

Campus Programs and Broader Impacts Resource Fair

Campus programs and other potential broader impacts partners came together to consult and discuss options for collaboration with faculty in assisting with their broader impacts plans. Thirty-two programs represented by 42 faculty and staff were available to speak with attendees.

Evaluation

A Model for Aggregated Assessment of Broader Impacts Activities

National Student Clearinghouse

Aggregated data request

Central REU Evaluation Project

- Standard Assessment Tools
- Large Participant Datasets
- Aggregated Data
- Longitudinal Tracking

Programs

Central REU Evaluation Project

- REU Site Programs
- Supplemental REUs
- Other Undergrad Research Programs

Summer and Academic REU Year Participants

Leadership Team
Sharon Quisenberry, PI
Bonnie Bowen, Co-PI
Diane Rover, Co-PI
Megan Heitmann, Program Manager

Evaluators
Mari Kernis, Internal
Mariko Chang, External

College Equity Advisors
Nicola Bowler, Engineering
Mary Lynn Damholt, Human Sciences
Lisa Larson, Liberal Arts and Sciences
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Faculty Leaders
Holly Bender, Veterinary Medicine
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Michael Kessler, Engineering

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