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.

Leadership Team
- Megan Heitmann, Co-PI
- Diane Rover, Co-PI
- Bonnie Bowen, Co-PI
- Sharron Quisenberry, PI

SP@ISU is working with Elena Cotos, a linguistics researcher at ISU, to develop a tool for faculty to assist them in writing broader impacts statements for NSF proposals. Previously, she has developed a tool that analyzes research papers and provides users with immediate feedback. SP@ISU is also working with Elena Cotos to develop a tool for faculty to assist them in writing broader impacts statements for NSF proposals.

Coverage of Broader Impacts Categories

<table>
<thead>
<tr>
<th>Broader Impacts Categories</th>
<th>References</th>
<th>Percent Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advance Discovery</td>
<td>86</td>
<td></td>
</tr>
<tr>
<td>Broader Participation</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Enhance Infrastructure</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Broader Dissemination</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Broader to Society</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

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

SP@ISU is providing and coordinating opportunities and resources for the campus to better understand, develop, and integrate broader impacts into research programs. SP@ISU is also working with faculty and departments to develop and integrate broader impacts plans. SP@ISU is working with faculty and departments to develop and integrate broader impacts plans.

Social Network Analysis: Measurement of Collaboration

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.

Broader Impacts Evaluation Workshop

To assist investigators with their broader impacts efforts, SP@ISU offered a “Broader Impacts Evaluation Workshop.” The workshop allowed attendees to:
- Learn evaluation techniques that meet NSF standards.
- Hear from evaluation experts in undergraduate research and K-12 outreach.
- Speak with experts and panelists to discuss questions and broader impacts activities.

Videos of these sessions are available on our website.

A Model for Aggregated Assessment of Broader Impacts Activities

Grant No. HRD-0963584, July 2010 - 2015

This material is based upon work supported by the National Science Foundation under Grant No. HRD-0963584. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.