

## **Top Tips and Best Practices for Broader Impacts**

View this as your **career-long passion**. Leverage your **personal background** to match your project with an area that fits into Broader Impacts and is of interest to you.

**Devote at least 1 page** of your proposal to a description of your Broader Impacts.

- You need to have a detailed, comprehensive plan.

**Help reviewers by framing your Broader Impacts program.**

Address these questions:

- **Who** is the audience for the activity?
- **Why** was this particular activity chosen?
- **What** does the activity involve?
- **How** will the activity accommodate human nature?
- **With whom** is the activity to be designed or performed?

For detailed information about this framework, review the article [\*Crafting and Evaluating Broader Impacts Activities: A Theory-Based Guide for Scientists\* by Megan M. Skrip](#).

If your field is easily **relevant**, take advantage of this.

- Can your research help to understand some **fundamental or important questions**?
- Can your **results/techniques** be used by researchers in other areas?

**Don't take the "information deficit" approach.**

- The "deficit model" approach to science outreach is where the public is seen to have an "information deficit" that is fixable by the provision of data.
- This approach is ineffective to accomplish educational goals or achieve lasting attitudinal/behavioral changes.
- The "public" is not an empty vessel waiting for scientific knowledge; rather, the varied and complex social needs of different audiences must drive the efforts of scientists.

For more information, review the article [\*Crafting and Evaluating Broader Impacts Activities: A Theory-Based Guide for Scientists\*](#).

**Understand the goals of NSF.**

- It is important to incorporate these into your proposal. Know what the program directors and reviewers are looking for in your proposal.
- View NSF's strategic plan through 2018 at [https://www.nsf.gov/about/performance/strategic\\_plan.jsp](https://www.nsf.gov/about/performance/strategic_plan.jsp).

NSF focuses on a **variety of outcomes** for broader impacts.

- Think about the possible impact on society, economy, environment, or health.
- Some outcomes include building STEM talent, innovating for the future, improving society, reaching beyond borders, and engaging a wider audience.
- More info can be found at <http://www.nsf.gov/od/oia/special/broaderimpacts/>.

# **Top Tips and Best Practices for Broader Impacts**

## **Find ways to make your project creative.**

- For example, interactive displays are a good way to present your data as well as engage your audience and increase participation in STEM. (See [NSF Award 1521110](#) for an example.)

## **Incorporate national reports** (such as those from the [National Academies Press](#)) into your proposal.

- This shows that you are aware of the current national conversations and findings related to STEM in education, policy, and the workforce.

## **Take advantage of local resources.**

- **Focus on the strengths of your location.**
  - Highlight your plan to work with programs in cities and communities that are nearby.
- **Use what already exists!**
  - Find programs on campus and in the community that you can collaborate with. Take advantage of the opportunities they provide.

## **Get support letters** from people who will be involved with your project.

- For example, if you plan to incorporate K-12 outreach as your broader impacts, get letters of support from local teachers or the superintendent of the district or school you plan to work with.

## **Partner with experts outside of your field.**

- Collaboration with other experts helps strengthen your approach to addressing social, environmental, policy, and other issues.
- A social scientist can be invaluable as they can study program outcomes and are experienced with program assessment and evaluation, including surveys and focus groups.

## **Get an evaluator for your project.**

- The School of Education and Human Services faculty may be able to serve as an internal evaluator. Contact Michael MacDonald, Associate Dean of SEHS ([mmacdona@oakland.edu](mailto:mmacdona@oakland.edu)) to discuss evaluation and assessment.