RIO Faculty Workshop

Understanding Broader Impacts



Outline

Overview of Broader Impacts | 5 min

BI Examples | 10 min

CU Campus Resources | 10 min

NSF Perspective | 10 min

Q & A | 10 min

Group Discussion | 45 min

- K-12 Outreach
- Science Communication
- Experiences for Undergraduates
- Tech Transfer

Intellectual Merit |

the potential to advance knowledge

Merit Review Criteria

Broader Impacts

the potential to benefit society and contribute to the achievement of specific, desired societal outcomes.

Merit Review FAQs: http://www.nsf.gov/bfa/dias/policy/merit_review/mrfaqs.jsp

Integrate your research into undergraduate education Train grad students in outreach

Broaden Participation in STEM

Science Cafés

What are Broader Impacts?

Writing popular science articles Research experiences for K-12 teachers

Translate theory to practice Museum exhibits

Podcast about your work Public talks

Contribute to National research competitiveness

Inform public policy

Host students in your lab

Convey impacts on human health

Technology transfer to industry and community

"Broader impacts may be accomplished through the research itself, through activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to the project."

-NSF "Proposal & Award Policies & Procedures Guide"

Activities should <u>complement</u> your research activities and be <u>scaled appropriately</u> for the proposed project or program.

Guiding Questions

- What is the potential to benefit society?
- Are proposed activities creative, original, potentially transformative?
- Is the plan based on sound rationale?
 Is there a mechanism to assess success?
- How well qualified is the team?
- Are there adequate resources to implement proposed activities?

Key Considerations

Goals?

Audience?

Level of your involvement?

Amount of funding?

Lab Visits





Science Cafés





Community Outreach





Boulder Creek CZO

INSTAAR





Photo Origami

College of Engineering & Applied Science

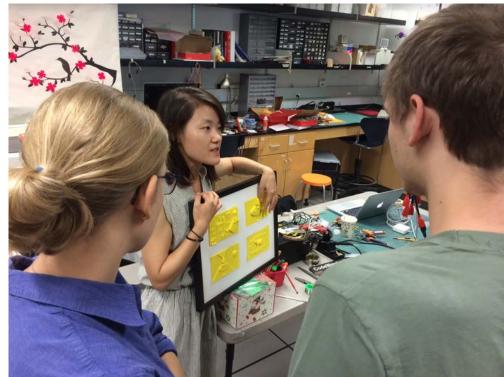




Tactile Picture Book Project

Computer Science





CU BI Resources

Office of Outreach & Engagement (Outreach Grant Applications now open!)

Outreach Centers

Science Discovery

Fiske Planetarium

Museum of Natural History

Dept. & College Outreach Programs (PISEC, BSI, CU ENGAGE, etc.)

Dept. & College Diversity Offices (ODECE, BOLD, etc.)

RIO Office









Programs

Exhibits

Traveling Exhibits

Contact: Sharon Tinianow, Assistant Director

Sharon.tinianow@colorado.edu www.colorado.edu/cumuseum



Be bright. Be scientific. Be inclusive. Be BSI.



Broader Impacts in the Life Sciences

- Undergraduate Research-BSI Scholars in STEM
 - Include students from underrepresented groups in your lab
- ➤ BSI Teacher Professional Development

 Help K-12 teachers communicate your research and its value to youth
- Online Resources for Teachers and Students-ScienceLIVE
 - Connect field research to K-12 students, teachers and the general public













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Registration Open Click here

NSF Perspective

Dr. Chaitanya Baru

Senior Advisor for Data Science

CISE Directorate, NSF

Q&A

Group Discussion

- K-12 Outreach
- Undergraduate Experiences
- Science Communication/
 Public Audiences
- Technology Transfer

Wrap Up

What types of Broader Impacts activities are you hoping to develop/implement in the near future?

Would you be interested in attending a follow up event where you could meet one-on-one with broader impacts providers across campus?

For More Info

CU Science Discovery

http://sciencediscovery.colorado.edu

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CU Outreach & Engagement

https://outreach.colorado.edu

CU Research & Innovation Office (RIO)

https://colorado.edu/innovate

NABI

https://broaderimpacts.net