## RIO Faculty Workshop

## Understanding

 Broader ImpactsScience Discovery
UNIVERSITY OF COLORADO BOULDER

Overview of Broader Impacts | 5 min
BI Examples | 10 min
CU Campus Resources | 10 min
NSF Perspective | 10 min

## Outline

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 <br> Review <br> Criteria

## Broader Impacts |

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

K-12 Engagement
Integrate your research into undergraduate education

Broaden Participation in STEM Science Cafés


Train grad students in outreach

Writing popular science articles保 Translate theory to practice Museum exhibits 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 complement your research activities and be scaled appropriately for the proposed project or program.


* 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?



## 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


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

## [1] <br> Museum of Natural History University of Colorado Boulder



Programs


Exhibits


Traveling Exhibits

Contact: Sharon Tinianow, Assistant Director Sharon.tinianow@colorado.edu www.colorado.edu/cumuseum

Be might Be scientio. Be inclusive Be BSI.
$\square$ University of Colorado Boulder

## 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


National Alliance for Broader Impacts


## NSF <br> Perspective

Dr. Chaitanya Baru

Senior Advisor for Data Science
CISE Directorate, NSF



- K-12 Outreach
- Undergraduate Experiences
- Science Communication/

Public Audiences

- Technology Transfer


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?

# CU Science Discovery <br> 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

