

## Responsible Conduct of Research A Problem Solving Workshop

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## Comparison of NSF and NIH Requirements

### What's Required

#### NSF

A plan to provide appropriate training **and oversight**

#### NIH

Instruction in Responsible Conduct of Research

### Applicability

#### NSF

Students and postdocs who are supported by NSF to conduct research

#### NIH

All trainees under NIH institutional Research Training Grants, and individual fellowships /other awards with a training component

### Pre-Award

#### NSF

- Certification signed by AOR w/ submission.
- Plan not required in proposals, but "subject to review"

#### NIH

- Program described in application, included in peer review; updated description in renewal applications.
- Reviewers will look at past practices/format/subject matter/faculty participation/duration and frequency of training proposed, will rate as acceptable or not acceptable

### Type of Training

#### NSF

- Not prescribed, left to institutions to determine

#### NIH

- Instruction should include "substantial" face to face conversations
- On-line training is NOT sufficient.
- Minimum of 8 contact hours

## Recipients of Training

### NSF

- Undergraduate and graduate students and post-doctoral researchers “supported by NSF to conduct research”

### NIH

- Research faculty should participate in the RCR training ;
- All trainees, fellows, participants and scholars receiving support through any NIH training, career development award, research education grant, and dissertation research grant, and any other NIH-funded programs that require RCR training in the FOA.
- All individuals associated with a project should receive training, regardless of source of support

## Frequency of Training

### NSF

- Not specified

### NIH

- At least once during each career stage,
- No less than once every four years

## Training Content

### NSF

- Not specified

### NIH

- Conflict of interest
- Human subjects, animal welfare, laboratory safety
- Mentor/mentee responsibilities and relationships
- Collaborative research
- Peer review
- Data acquisition, management, sharing and ownership
- Research misconduct and policies for handling misconduct
- Responsible authorship and publication
- Scientists' responsibility to society

## Compliance

### NSF

- Institutions must designate one or more persons to oversee compliance;
- Institutions must be able to verify that training has been received.

### NIH

- Institutions are expected to maintain records sufficient to demonstrate that training has been received.

## Implementation Issues Institutional

- Who will be responsible for delivering the training?
- What training will be required?
- Who/what office will handle certification?

## Implementation Issues Trainees

- Who will be required to complete the training?
- Will there be a time limit on completing the training?
- Will there be training requirements for students not covered by NSF/NIH policies?

## Implementation Issues Faculty

- Will there be a requirement for faculty to be trained?
- How do you manage faculty resistance?