

Responsible Conduct of Research

An Update

Committee on Oversight

National Science Board

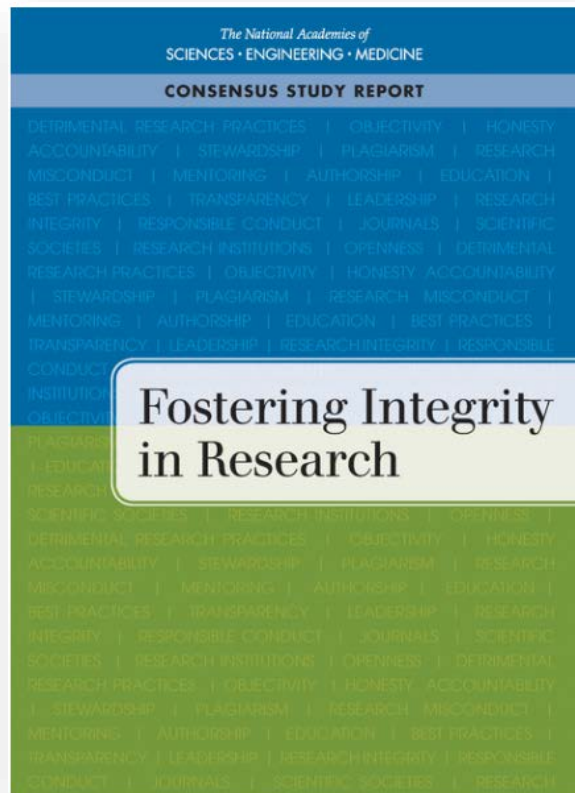
November 28, 2018



F. Fleming Crim, Chief Operating Officer

Fae Korsmo, Senior Advisor, Office of the Director

Responsible Conduct of Research (RCR) More than the Absence of Misconduct (Fabrication, Falsification, Plagiarism)



NASEM, 2017

A Broad View

**Open Access, Data Stewardship,
Publication Practices, ...**

Research Culture

Research Environment

Content and Delivery



Background: America COMPETES Act of 2007

SEC. 7009. RESPONSIBLE CONDUCT OF RESEARCH

The Director shall require that **each institution** that applies for financial assistance from the Foundation for science and engineering research or education **describe in its grant proposal a plan to provide appropriate training and oversight in the responsible and ethical conduct of research** to undergraduate students, graduate students, and postdoctoral researchers participating in the proposed research project.



Background: America COMPETES Act of 2007

SEC. 7009. RESPONSIBLE CONDUCT OF RESEARCH

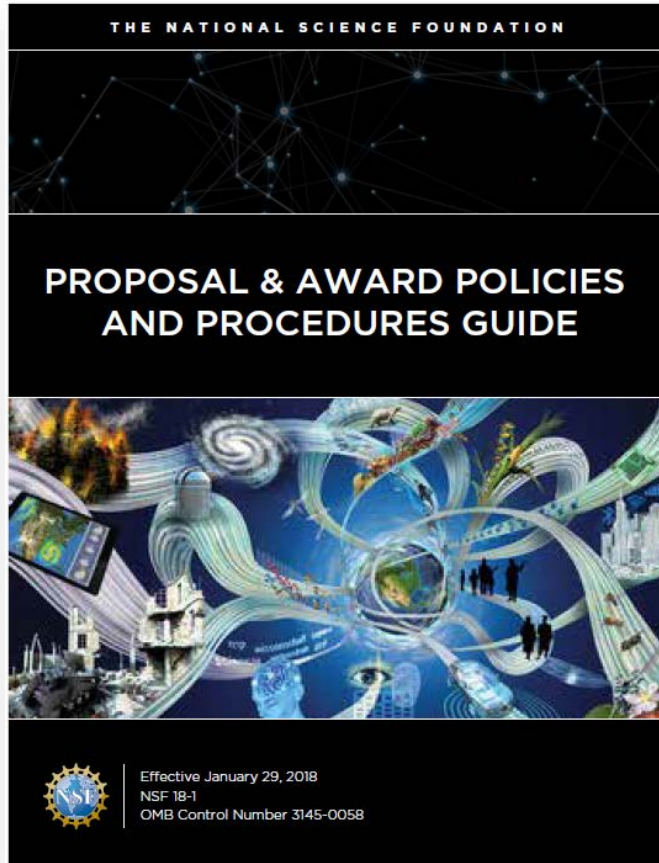
The Director shall require that **each institution** that applies for financial assistance from the Foundation for science and engineering research or education **describe in its grant proposal a plan to provide appropriate training and oversight in the responsible and ethical conduct of research** to **undergraduate students, graduate students, and postdoctoral researchers** participating in the proposed research project.



NSF's Policy Response to the America COMPETES Act

Proposal and Award Policies and Procedures Guide (PAPPG)

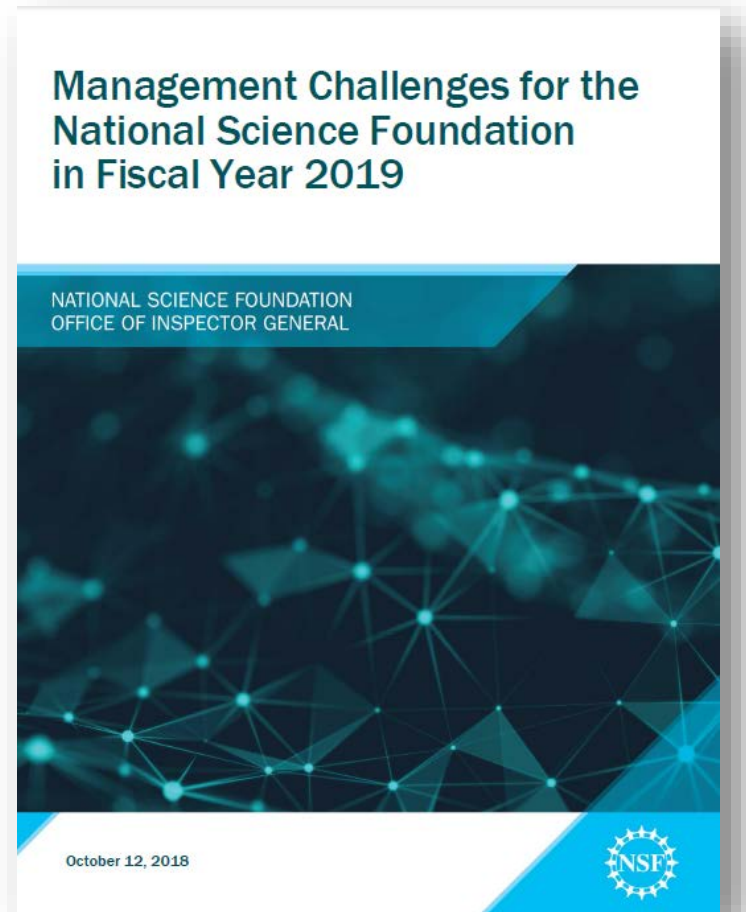
The Authorized Organizational Representative (AOR) is required to **complete a certification** that the institution has **a plan to provide appropriate training and oversight in the responsible and ethical conduct** of research to undergraduates, graduate students, and postdoctoral researchers who will be supported by NSF to conduct research.



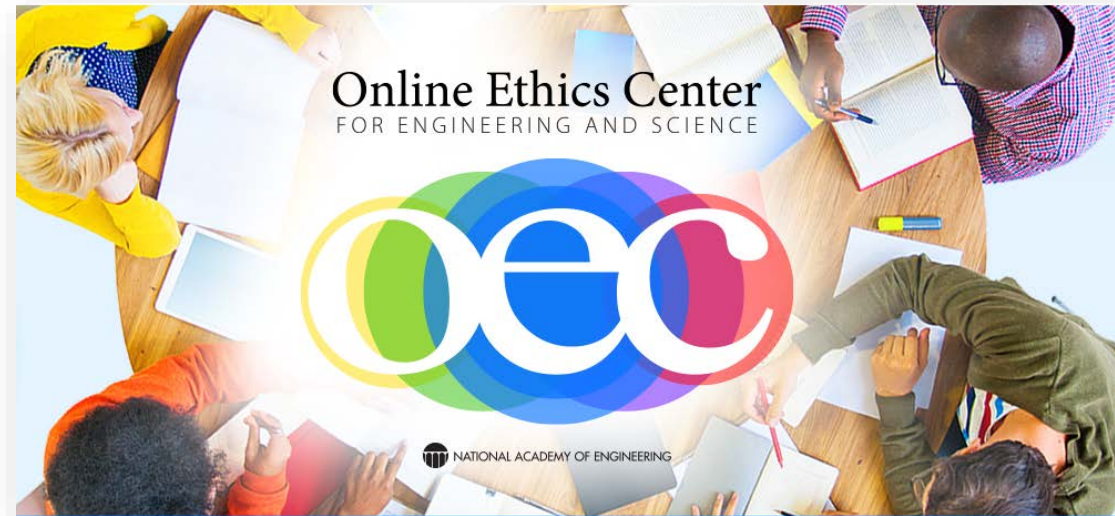
Office of Inspector General Management Challenge: Ethical Conduct of Research

A Framework for RCR

“NSF is in a **unique position** to foster the implementation of effective RCR training – **including its content and how it is delivered** – for all researchers, **especially new members of the research community**”



NSF Actions



NSF supports the **Online Ethics Center**

Cultivating Cultures for Ethical STEM Program (SBE)

Director's Important Notice No. 140 (2017)

NSF now **encourages faculty** training



NSF-Sponsored Workshop on “Positive Research Integrity”

Aspirational behavior

Positive exemplars

Positive **impact of science** done right

Science requires trust

Focus on the **students** and **actions**



Photo Credit: MikeDKnight, CC-SA

Mark L. Bourgeois, Pamela Ansburg, and Dana Plemmons, from a March 2018 presentation at the Association for Professional and Practical Ethics



Next Steps

Promising Practices Summit (2019)

Encourage faculty to embed RCR

Build on research results



A Coherent Approach to RCR

Responds to Recommendations

