**Implemented: January 4, 2010** 

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# COLUMBIA UNIVERSITY PLAN FOR FULFILLING NSF RESPONSIBLE CONDUCT OF RESEARCH (RCR) TRAINING REQUIREMENTS

### Introduction

The University receives significant funding from the National Science Foundation to conduct research projects. In accordance with the America COMPETES Act, NSF requires training in the Responsible Conduct of Research for all:

- undergraduates,
- graduate students, and
- postdocs

who receive NSF funds in the form of support from salary and/or stipends to conduct research on NSF grants. The RCR training requirement applies to all awards from proposals submitted, or due, on or after January 4, 2010, to conduct research, which excludes, for example, conference, symposium, workshop, or travel proposals. (Details about the NSF RCR requirements are available here: <a href="http://www.nsf.gov/pubs/policydocs/rcr/rcrfaqs.jsp.">http://www.nsf.gov/pubs/policydocs/rcr/rcrfaqs.jsp.</a>)

NSF's regulations require institutions, at the time of proposal submission, to "certify 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." In addition, "institutions are responsible for verifying that undergraduate students, graduate students, and postdoctoral researchers supported by NSF to conduct research have received RCR training." This document outlines the University's guidelines for compliance with NSF's requirements.

## **Guidelines**

It is the responsibility of the Principal Investigator to ensure that all postdocs, graduate students and undergraduates who receive NSF funds in the form of support from salary and/or stipends to conduct research on NSF grants receive training in the Responsible Conduct of Research. In general, training should be completed within three months of when the individual begins work on the project, or the individual must provide a plan through which training will be completed within a reasonable timeframe (e.g., registering for a course in the coming semester). Where individuals are working on NSF projects for a short time, such as the summer, training should be completed before the individual's work on the project ends.

The Office of Research Compliance and Training (RCT) will coordinate the collection and maintenance of compliance information. Working with Sponsored Projects Administration, RCT will identify individuals who are required to receive training and will track training completions. Reports of non-compliance will be generated and shared with PIs and DAs for follow-up.

# A. Options for fulfilling RCR training requirement

The University offers several options for individuals to receive training in the Responsible Conduct of Research, any of which will satisfy the requirement:

- Collaborative Institutional Training Initiative (CITI) Training CITI is a consortium of research institutions that has created web-based training in the Responsible Conduct of Research, among other areas. CITI is used by over 1,500 institutions worldwide for training in RCR, human subjects protection and other research-related compliance areas. Access and tracking is through Rascal and administered by the Office of Research Compliance and Training. Learners are required to complete up to nine modules:
  - o Research misconduct
  - o Conflict of interest
  - o Publication practices and responsible authorship
  - o Data acquisition, management, sharing, and ownership
  - o Mentor/trainee responsibilities
  - o Peer review
  - o Collaborative science
  - o Human subjects
  - o Animal subjects (biomedical researchers only)

Much of the content in the CITI RCR course is taken from content developed at Columbia and other institutions under contracts with the Department of Health and Human Services' Office of Research Integrity.

The CITI course can be accessed through the Rascal Training Center, course TC0094 (<a href="https://www.rascal.columbia.edu/login/tc0094/">https://www.rascal.columbia.edu/login/tc0094/</a>). All modules need not be completed in one sitting.

#### Established Columbia Courses:

- Morningside Research Ethics, Robert Klitzman (Permission of instructor required.)
  - Course Website: http://ce.columbia.edu/bioethics/courses#k4450
- CUMC Responsible Conduct of Research and Related Policy Issues, Arthur Palmer and Jaime Rubin (required for all CUMC graduate students except for the students in the Department of Neurology; open to postdocs on request and subject to availability)
  - Course website: http://www.researchethics.cumc.columbia.edu/
- School/Departmental Offerings Schools or departments may train individuals
  through previously established or newly created training options. Such offerings should
  be reviewed by the Office of Research Compliance and Training to assure that they are
  generally comparable to other commonly accepted RCR trainings.

# B. Requirements for Individuals Who Previously Completed RCR Training

- Individuals who have previously completed one of the Columbia RCR courses (Morningside or CUMC) will not be required to repeat it for purposes of fulfilling the NSF requirements.
- Individuals who have previously completed CITI RCR training at another institution will be credited for the modules they have taken. However, since CITI allows institutions to select from among different RCR offerings, individuals must complete any Columbiarequired modules that have not been previously completed.
- Individuals who have previously completed RCR training at another institution (other than CITI RCR training) will be required to complete one of the RCR training options at Columbia.

## **C.** Monitoring Process

- a. Sponsored Projects Administration will provide RCT with regular reports identifying students and postdocs who receive either salary or stipend support for work on NSF research projects. GSAS will provide an annual list of NSF Graduate Research Fellows.
- b. RCT will send affected individuals, their PIs and Department administrators email notification of the individual's obligation to complete training.
- c. Completion data for CITI and University courses will be collected regularly. Individuals who meet the training requirement through other methods will be required to submit evidence of compliance (e.g., course transcripts, certification from department).
- d. Reminders will be sent monthly to individuals and PIs for three months. Individuals who are noncompliant after three months will have their information forwarded to the Associate Vice President for Research Compliance for enhanced follow up.
- e. Failure to complete the training could result in the individual student or postdoc's ineligibility to be funded by NSF projects.
- f. The monitoring process is described in greater detail in the attached Appendix A.

### **Questions**

Questions regarding the NSF RCR requirement may be directed to the Office of Research Compliance and Training, 212-851-2897, or <a href="mailto:research-compliance@columbia.edu">research-compliance@columbia.edu</a>. Information is also available at

http://www.columbia.edu/cu/compliance/docs/training/Responsible\_Conduct\_of\_Research.

## **Appendix**

Appendix A: Tracking Process is available upon request: research-compliance@columbia.edu.