Background and Purpose:

NSF: Since January 2010 NSF has had a requirement that all institutions proposing support for students (undergrad and graduate) and postdocs certify in their proposals that the institution has a plan in place for training those students and postdocs in the responsible conduct of research. NSF’s position is that the responsible and ethical conduct of research (RCR) is critical for excellence, as well as public trust, in science and engineering. Consequently, education in RCR is considered essential in the preparation of future scientists and engineers.

NIH: In 1989, the NIH published its first policy requiring instruction in the responsible conduct of research-practicing scientific investigation with integrity. The current NIH policy requires that all trainees, fellows, participants, and scholars receiving support through any NIH training, career development award (individual or institutional), research education grant, and dissertation research grant must receive instruction in responsible conduct of research.

This document represents Caltech’s plan for providing education in the responsible conduct of research for all NSF-supported student and postdoctoral researchers as well as the applicable NIH trainees, fellows, and scholars.

Oversight:

In order to ensure the success of Caltech’s RCR program, the Vice Provost for Research is designated as the individual with overall responsibility for oversight of the program. The Vice Provost will lead a committee comprised of the Dean of Students, the Dean of Graduate Studies, the Director of Research Compliance, the Associate Vice President for Research Administration and the Associate Vice President for Human Resources.

Plan:

All students or postdocs who must take RCR training will receive notice from either the Graduate Office (students) or the Office of Research Compliance (postdocs). The student or postdoc must fulfill his/her requirement per applicable training plan(s), below, in a timely fashion. Failure to fulfill the requirement may result in a hold on a student’s registration or may compromise the student’s or postdoc’s continued NSF or NIH funding.

NSF RCR Training:

All NSF-supported students and postdocs at Caltech must take and pass the Collaborative Institutional Training Initiative (CITI) course in Responsible Conduct in Research, which will include as a minimum the following modules:

- Responsible Conduct of Research (RCR) Course Introduction & Conclusion
Participants’ progress will be tracked and recorded with the intent that all participants complete the program by the end of the first full academic term during which they are supported by NSF funds. If a student or postdoc can document having passed a similar, qualifying program at Caltech or another institution, Caltech will accept that in place of completing Caltech’s program. Completion of Bi252 will satisfy the NSF RCR requirement.

**NIH RCR Training:**

NIH requires substantial face-to-face training for successful completion of the RCR requirement. To fulfill this requirement, students or postdocs must successfully complete Bi252, Responsible Conduct of Research, which is offered in the Spring Term and covers:

- Authorship and Peer Review
- Mentoring
- Scientific Misconduct
- Conflicts of Interest
- Intellectual Property
- Animal Subjects
- Human Genomes
- Human Subjects

Instruction must be taken at least once during each career stage of the individual, and not less than once every four years. This means that a student who takes this course while an undergraduate or a graduate student at Caltech, may need to retake the course as a graduate student or postdoc at Caltech, if he/she continues to be paid under the same or new NIH training grant or fellowship. It also means that if an NIH funded student or postdoc took a qualifying course at another institution during a different career stage (i.e. as a graduate student and is now a postdoc) or more than three years prior in the same career stage (i.e. as a postdoc, is still a postdoc, but took the Caltech course or other institution course more than three years ago), he/she must take the course at Caltech.

Participants’ progress will be tracked and recorded with the intent that all participants complete the program by the end of the first full academic term during which they are supported by NIH funds. Participants may take the course before the funding is awarded.