

Marquette University Responsible and Ethical Conduct of Research Plan

Effective January 4, 2010, the [National Science Foundation](#) began implementing Section 7009 of the America Competes Act (42 U.S.C. 1862o-1). This regulation requires that each institution that applies for funding from NSF has a plan to provide appropriate training and oversight in the responsible and ethical conduct of research (RECR) for undergraduate students, graduate students, and postdoctoral researchers participating in the proposed research project. The regulation was updated in 2023 to include faculty and senior personnel.

The National Institutes of Health (NIH) updated its requirement for instruction in the RECR in NIH notice number [NOT-OD-10-019](#), dated November 24, 2009 and again in [NOT-OD-22-055](#), dated February 17, 2022. NIH 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 and ethical conduct of research. This policy took effect with all new and renewal applications submitted on or after January 25, 2010, and for all continuation (Type 5) applications with deadlines on or after January 1, 2011. This Notice applies to the following programs: D43, D71, F05, F30, F31, F32, F33, F34, F37, F38, K01, K02, K05, K07, K08, K12, K18, K22, K23, K24, K25, K26, K30, K99/R00, KL1, KL2, R25, R36, T15, T32, T34, T35, T36, T37, T90/R90, TL1, TU2, and U2R. This policy also applies to any other NIH-funded programs supporting research training, career development, or research education that require instruction in responsible and ethical conduct of research as stated in the relevant funding opportunity announcements.

The Office of the Vice President for Research and Innovation at Marquette University, to meet these requirements and any other such requirements mandated by other sponsors, has developed an implementation plan. The Dean of the Graduate School is the Responsible and Ethical Conduct of Research Coordinator, and the Vice President for Research and Innovation is the Research Integrity Officer. The two units have worked together to develop an implementation plan which is in compliance with both sets of regulations referenced above. Areas to be covered in the plan include:

- Data Acquisition and Management
- Secure and Ethical Data Use
- Mentor-Trainee Relationships
- Publication Practices and Authorship
- Peer Review Practices
- Collaborative Research, including I

RECR content will be delivered via a hybrid of on-line and face-to-face sessions. Participants will access content via the Collaborative Institutional Training Initiative (Citi) Responsibility Conduct of Research Basic Course or Refresher Course online modules. They will demonstrate content mastery by successfully completing quizzes associated with each of the abovementioned topics (approximate completion time 4-5 hours). Participants will also be required to attend three 1.5 hour (4.5 hours total) workshops consisting of case study analysis and discussion. To prepare for each face-to-face workshop, participants will access relevant cases and discussion questions through the university's course management system. The online modules will be available on-demand and the face-to-face workshop series will be offered multiple times per year. Differentiated curriculum is available for students and postdoctoral fellows/faculty/senior personnel who are required to receive RECR training.

An overview of each of the topics in the Citi RCR Courses is available in the [Citi RCR Course Catalog](#).

Students participating in a National Science Foundation-supported Research Experiences for Undergraduates (REU) Site program will typically complete RECR training as a part of the REU Site programming. The REU Site program is designed to provide students with research experiences in a variety of fields. The REU Site program is designed to provide students with research experiences in a variety of fields.