

46945

by X X

Submission date: 15-Jan-2023 02:11AM (UTC+0000)

Submission ID: 195001607

File name: assign3.pdf (122.79K)

Word count: 1371

Character count: 8337

i. Define responsible conduct of research (RCR).

According to Xie (2022), Domestic and foreign government departments and scholars have discussed the concept of responsible conduct of research (RCR) extensively, but they failed to form a unified concept. Currently, one of the more popular definition of RCR from America Department of Health is that RCR is simply good citizenship applied to professional life. Scientists can report their work honestly, accurately, efficiently and objectively, which is RCR, Steneck (2004). Anyone who is dishonest, intentionally reports inaccurate results, wastes funds or allows personal bias to influence scientific findings is not RCR.

ii. Define what constitute research misconduct.

According to Steneck (2004), fabrication, falsification or plagiarism in the process of applying for or reviewing research projects or reporting research results constitutes academic research misconduct. Fabrication refers to using false scientific data as real scientific data or intentionally changing data for a result. Falsification is defined that skillfully manipulate research materials, skillfully operate instruments and equipment, or use research procedures and methods to replace or omit data or results so that accurate data is not available in the research records. Plagiarism is the act of quoting another person's ideas, opinions, achievements, statements of language without stating their source.

iii. Give brief description of three RECENT CASES of ...

Tsinghua University doctoral student's academic misconduct was revoked. In October 2018, it was reported that Tsinghua University had 11 papers in the field of materials science, which were withdrawn due to research misconduct such as picture tampering, content duplication, and false attribution. These papers were published from 2014 to 2016. The first author is Ye Xiaoxin, who is a 10-level doctoral student under the guidance of professor Tang Guoyi in Tsinghua University. During the 5-year PhD period, Ye Xiaoxin published 16 papers as the first author, but the media reported that behind his high production, he was continuously reusing his own images with data. In April 2017, Tsinghua University seriously dealt with Ye Xiaoxin's serious research misconduct, revoked his doctoral degree, and held his tutor accountable.

Three scholars from Nanyang University of Technology fabricate data. In July 2016, Sudarsanareddy Lokireddy, a Harvard research scholar, was exposed to fabricate data during his doctoral period and his doctoral degree was revoked by his Alma Mater Nanyang University of Technology. Because of this, he was dismissed by Harvard and received a series of withdrawals, including six paper withdrawals and six paper revisions. Because some research misconducts were committed by his co-authors, Ravi Kambadur and Ridula Sharma, the heads of research groups at Nanyang University of Technology and National University of Singapore, they were all dismissed. Both Kambadur and Sharma have 7 papers withdrawn and 6 papers revised. Their research misconducts also affected Lokireddy's dissertation and led to the cancellation of his doctoral degree.

A master student of Hunan University plagiarized the application of Natural Science Foundation. On March 27, 2019, it was revealed that Liu Mengjie, a master

graduate of Hunan University, whose graduation thesis is studied the impact of corruption on tax evasion in enterprises, was suspected of plagiarizing her application for 2017 National Natural Science Foundation project. The cumulative repetition of 15626 words in the two papers has affected the submission and duplication check of the doctoral thesis completed in 2019. The university recognized Liu Mengjie's research misconduct and decided to cancel Liu Mengjie's master's degree, give warning to his mentor Hong Yuan, cancel his mentor qualification and transfer him from teaching position.

iv. Give brief description of the similarities and differences ...

According to University of Houston, (2022, October 12), the University of Houston supports its staff and students in RCR and ethical conduct of research. The RCR policy in the university is considered to foster a atmosphere of intellectual honesty and academic commitment to ethical responsibility. All members of the university are responsible for maintaining the RCR policy. All researchers must participate RCR curriculum.

According to the University of Mississippi, (2010, April 23), to achieve the highest standards of integrity and ethical conduct, the University of Mississippi Research Council unanimously approved the following RCR courses for all major researchers, including staff, postdoctoral, postgraduate and undergraduate. These individuals must complete RCR courses before receiving sponsored project funding.

According to the University of West Florida, (2022, December 19), the university conducts an examination for the participants of the RCR course and evaluates the teaching effect of the course. Meanwhile, teachers are encouraged to develop RCR teaching materials and courses through financial support.

v. Discuss YOUR duties and roles with regards to RCR ...

a. as research students

As research students, following the relevant RCR policy is the minimum goal. Generally speaking, RCR generally includes the following four basic requirements: honesty, accuracy, objectivity and social responsibility. First of all, researcher students should be honesty, which is the most essential requirement for scientific and technological workers. The RCR should be based on integrity, with the goal of maintaining scientific spirit and improving the quality of scientific research. Secondly, research data must be accuracy. Scientific experiments are carefully designed, and the results are accurately recorded and reported. As an important link in the implementation of scientific research, research data is the basis of scientific research. Any error in the process of data collection and recording will not guarantee the authenticity of subsequent research work, and may cause serious consequences to the entire research. research students should be objective and avoid subjectivity and prejudice. The objectivity of scientific research is based on facts, transparency and verifiability. All statements in science must be well-grounded. Finally, research students should also be responsible for the society. Scientific research conduct are the common cause of mankind, and the resources used are also the wealth of the whole society. Therefore, all research results should ultimately be shared by the scientific community and the whole society. Scientific researchers and research institutions

should be responsible for the behavior of the scientific community. They should also abide by the universally accepted moral principles and codes of conduct, and properly use and cherish scientific and technological resources.

b. as researchers

As researchers, in addition to following the above mentioned duties, they should also follow other four duties : protecting the interests of participants, abiding by the law, scientific integrity and charity, and follow the principle of research safety, De Montfort University, (2023, January). First, researchers should have the duty to protect the interests of participants. They should protect the privacy of research participants, protect the interests of vulnerable groups, ensure the confidentiality of information as appropriate, and respect the participants to be studied, including humans and animals according to current guidelines. In addition, researchers should abide by relative laws. For example, researchers should ensure data security and establish data intellectual property rights. Use legally acceptable research methods to avoid fraud operating within the scope of law, and recognize the legal and moral sensitivities surrounding the research topic. Researchers follow the principles of scientific integrity and charity and the principle has several connotations. Researchers should demonstrate the value of conducting research, should have the necessary certificates, relevant qualifications and experience to conduct research and should be open when dealing with colleagues and funding institutions. Lastly, researchers should especially follow the principle of research safety, protect participants from physical and psychological injury or pain risks, and ensure the personal safety of researchers and any collaborators.

words:1222

5 Reference:

De Montfort University, (2023, January). Responsibilities for ethical research. <https://www.dmu.ac.uk/research/ethics-and-governance/responsibilities-of-the-researcher.aspx>.

Steneck, N. H. (2004). ORI introduction to the responsible conduct of research. Government Printing Office.

The University of Mississippi, (2010, April 23). Education in Responsible Conduct of Research. https://policies.olemiss.edu/GetPdfActive?pol=11266284&ver=active&file=11266284_active_20171011.pdf&cod=RSP.VC.100.004.

The University of West Florida, (2022, December 19). Responsible Conduct in Research. <https://uwf.edu/academic-affairs/departments/research-administration-engagement/research-integrity-compliance/responsible-conduct-in-research-rcr/>.

University of Houston, (2022, October 12). Responsible Conduct of Research Policy. <https://uh.edu/research/compliance/rcr/rcr-policy/rcr-policy-10.12.2022.pdf>.

Xie Yu, (2022). Responsible Conduct of Research and its Realization Approach (Doctoral Dissertation, University of Science and Technology of China). https://kns.cnki.net/KCMS/detail/detail.aspx?dbname=CDFDTEMP&file_name=1023000922.nh

46945

ORIGINALITY REPORT

21%
SIMILARITY INDEX

8%
INTERNET SOURCES

6%
PUBLICATIONS

19%
STUDENT PAPERS

PRIMARY SOURCES

1 Submitted to Stony Brook University 5%
Student Paper

2 Submitted to De La Salle University 4%
Student Paper

3 www.mtu.edu 4%
Internet Source

4 Submitted to Intercollege 2%
Student Paper

5 Submitted to The Open University of Hong Kong 1%
Student Paper

6 conference.stamford.edu 1%
Internet Source

7 Submitted to Michigan Technological University 1%
Student Paper

8 uh.edu 1%
Internet Source

9 Submitted to University of Glasgow

10

Patricia Ann Mabrouk. "What Knowledge of Responsible Conduct of Research Do Undergraduates Bring to Their Undergraduate Research Experiences?", *Journal of Chemical Education*, 2015

Publication

<1 %

Exclude quotes Off

Exclude matches Off

Exclude bibliography Off