

Good Scientific Practice - Protecting Research Integrity*

The Workshop addresses scientists from the field of engineering and all who work with empirical or experimental methodology. The major objective of the workshop “Good Scientific Practice - Protecting Scientific Integrity” is to know and understand the basic rules and values of the responsible conduct of research in all its stages, according to local, national and international regulations and guidelines. You will explore the differences and grey areas between good scientific practice, questionable research practice and scientific misconduct. We will also address how misconduct can be recognized and prevented, and how it should be addressed and dealt with in case it occurs, and what damage it can cause if handled improperly. You will learn how to develop appropriate solutions for difficult situations in the process of science and receive advice on how to protect their scientific work.

The content of the workshop follows the curriculum “Good scientific practice” which was commissioned by and developed in cooperation with the German *Research Ombudsman*.

- Definitions of good scientific practice and scientific misconduct
- Degrees and extent of scientific misconduct

- Examples for responsible and irresponsible conduct of research
- Data and source management
- Authorship and the process of publication
- Mentoring and supervision tools
- Conflict management: how to deal with scientific misconduct
- Reactions to scientific misconduct
- Local, national and international guidelines and regulations

Methods:

The online workshop is based on active involvement and features the following didactic elements: Case discussions, breakout rooms for small group work, single person working sessions, plenary discussion, information input. Additional material and other resources will be provided after the workshop.

Trainer: Michael Gommel, PhD

Notice

*This workshop cannot be credited as a qualification measure at the Faculty of Mechanical Engineering. Nevertheless, participation is open to all doctoral candidates.

