Research Code of Conduct
RESEARCH CODE OF CONDUCT

A document for all staff and students (including Honours projects; Masters and PhD) undertaking research, informed by The Concordat to Support Research Integrity

Introduction

1 Abertay University expects all staff, students and visiting researchers to adhere to the highest standards of integrity in the conduct of their research. Members of the University have a collective responsibility to protect the good names of their colleagues and the institution by ensuring that their own research adheres to the principles of good research conduct and that they promote good research practice within the institution’s research community. This document aims to facilitate this process by setting out a code of conduct and good practice in research. The Code covers all research activities, irrespective of funding source, and including contract research and research activities conducted within the framework of a consultancy agreement. It should be read in conjunction with other University Regulations, policies and guidelines; for example with regards to staff and student discipline and health and safety practice.

2 Drawing on the UK funding bodies’ definition used in the Research Excellence Framework, as described in Assessment framework and guidance on submissions (2011), ‘research’ is defined as, ‘a process of investigation leading to new insights, effectively shared. It includes work of direct relevance to the needs of commerce, industry, and to the public and voluntary sectors; scholarship; the invention and generation of ideas, images, performances, artefacts including design, where these lead to new or substantially improved insights; and the use of existing knowledge in experimental development to produce new or substantially improved materials, devices, products and processes, including design and construction’.

Wider context

3 Amid growing international concern over research misconduct a number of organisations have proposed that Universities and other research institutions should safeguard public confidence in research and their own institution’s reputation by formulating guidelines on good research conduct, and instigating clear and fair procedures for investigating allegations of research misconduct. Increasingly, funding agencies are making it a condition of eligibility for research grants that institutions have in place agreed procedures for governing good research conduct, which have been made known to, and are binding on, all their staff. Whilst the principles embodied in such guidelines simply reflect good practice, and will be familiar to the vast majority of researchers, the conscious observance of a published code of conduct is seen as the best preventative measure against research misconduct. In formulating this code of conduct and procedures for dealing with research misconduct the University has drawn heavily upon the policies and procedures published by a number of international organisations and funding agencies, including the Research Councils and the Wellcome Trust; a full list of these is appended to the end of the document. The most recent review of this document incorporates changes recommended in the Concordat to Support Research Integrity published jointly by the RUK, Welcome Trust and Universities UK, which identifies five commitments that all those engaged with research should be able to demonstrate:

- All research is underpinned with common values of rigour and integrity
- All research conforms to all ethical, legal and professional obligations incumbent on the work
- The University will nurture a research environment that supports research of the highest standards of rigour and integrity
- The University will use transparent, robust and fair processes to handle allegations of misconduct
• The University will continue to monitor, and where necessary improve, the suitability and appropriateness of the mechanisms in place to provide assurances over the integrity of research.

Observance of the Code

4 This Code applies to all staff, students and visiting researchers conducting research within, or on behalf of, the University. Staff are expected to familiarise themselves with the Code and ensure that its provisions are observed by themselves, their students and their visitors. The Code of Conduct should be drawn to the attention of newly appointed researchers and research students during their induction processes. Failure to comply with the Code may lead to disciplinary action.

5 Where a researcher is in doubt about the applicability of provisions of the Code, or about the appropriate course of action to be adopted in relation to it, advice should be sought from their research group leader/Principal Investigator in the first instance. In their absence, or where doubt persists, researchers should seek advice from their Head of School, the Chair of the appropriate School Research Ethics Committee, or the Chair of the Research Ethics Sub-Committee. All advice should be provided on a confidential basis.

Ensuring Awareness of the Code

6 A copy of this code will be placed on the Research page of the MyAbertay, Research Strategy and Frameworks page. All existing academic and academic-related members of staff will be directed to read the Code of Conduct by their Head of School. All new academic and academic-related members of staff will be directed to read the Code as part of the induction meeting with their line manager. Postgraduate research students will be directed to read the Code by the Head of Research and the Graduate School at the Research Degrees Induction event. All other students (e.g. taught undergraduates and postgraduates) who are undertaking research shall be made aware of the Code of Conduct by their supervisor and directed to read it. Staff responsible for hosting visitors (at whatever level) who will be actively involved in research at the University should draw their attention to the Code at the beginning of their visit.

Principles of Good Conduct in Research

Openness

7 While recognizing the need for researchers to protect their own research interests, and the prior requirement to comply with the University’s Intellectual Property Policy, the University encourages researchers to be as open as possible in discussing their work with other researchers and with the public and must therefore comply with the Research Data management Policy and the principles of the Concordat on Open Research Data. Once results have been published, the University expects researchers to make available relevant data and materials to other researchers, on request, provided that this is consistent with any ethics approvals, consents and contractual agreements which cover the data and materials and any Intellectual Property Rights (IPR) in them. Participants, and other relevant stakeholders in a research project, should be offered access to a summary of the research findings.

Leadership and Organisation

8 It is the responsibility of the University Research Executive, the University Research and Knowledge Exchange Committee, and the University’s senior management (Heads of School, Heads of Division, Directors of Specialist Centres, and research group leaders) to ensure that a climate is created that allows research to be conducted in accordance with good conduct and practice. These individuals should work together to create a research environment of mutual co-operation in which all researchers are encouraged to develop their skills and in which the open exchange of ideas is fostered. The University is committed to the principles of the Concordat to Support the Career Development of Researchers. Thus, all Abertay
postgraduate students, researchers and academic staff are given membership of the Graduate School and have access to our dedicated study and social spaces, training and professional development opportunities.

Research Supervision and the Needs of New Researchers

9 In conjunction with senior colleagues, research supervisors, group leaders and Principal Investigators, should ensure that appropriate direction of research projects/programmes and supervision of researchers, research students and other students is provided. Supervision should be provided at all stages of the research process, including planning, practice, analysis and publication. It is particularly important to ensure that researchers who are new to research, whether staff, postgraduate student, or undergraduate student, understand good research conduct. The responsibilities of supervisors of research students are set out in the Research Degrees Student and Supervisor Handbook. Training in supervisory skills will be provided where appropriate.

Documenting Results and Storing Primary Data

10 The ownership of, where relevant, data and samples used or created in the course of the research, and the results of the research, should be clear from the outset of the research programme. Guidance on intellectual property issues can be found in the University’s Intellectual Property Policy. In the case of funded research, it is the responsibility of the Principal Investigator/researcher to ensure that funding is in place permitting appropriate data storage.

11 Researchers must keep clear and accurate records of the procedures followed, approvals granted and results obtained (including interim results) during the research process. This is necessary not only as a means of demonstrating proper research practice and protecting intellectual property, but also in case questions are subsequently asked about either the conduct of the research or the results obtained. For similar reasons, researchers must ensure that data generated in the course of research are stored securely at the University, in paper or electronic format (as appropriate), for a minimum of ten years after the completion of a research project, in accordance with the Research Data Management Policy. Data should be maintained for longer than ten years if required by a sponsor which has funded the research; this is particularly relevant to clinical or public health studies, to allow for longer-term follow-up. For further guidance on the maintenance of records in paper and electronic format researchers should consult the Safeguarding IP Guide in the University’s Intellectual Property Policy. Note that publication of the data/results does not remove the need to retain the original records. Should a researcher require more than the standard electronic storage quota allocated, the researcher should contact their Head of School to seek additional capacity from Information Services.

Researchers (i.e. any student, member of staff or visiting researcher undertaking research) MUST comply with the GDPR for Research Policy if collecting and processing personal and sensitive data. GDPR regulation is a law that will be rigorously enforced by means of punitive fines for universities. Failure to adhere to GDPR regulations will result in ethical approval of a project being revoked and/or may be treated as academic misconduct which would result in serious penalty. Researchers MUST consult the GDPR for Research Policy document, and design their research accordingly, before applying for ethical approval. Note that fully and irreversibly anonymised data falls outside of GDPR regulations.

12 When the individual responsible for generating and storing research data/results moves to another institution, retires, or otherwise leaves the employment of the University, the original research records should be transferred to and archived by Information Services, with a note of the date for record removal/destruction, unless specific documented permission is given to

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1 In line with the guidance set out in the EPSRC’s Policy Framework on Research Data the University is currently reviewing its capacity for the storage of research data and procedures for allowing external parties access to data generated from publicly funded and non-publicly funded research.
remove them by the Head of School. Following the completion of the minimum storage period, the records will be disposed of. The period of time for which the records must be maintained, and the procedure for authorisation of their disposal at the end of this period, should be securely attached to the records. Under normal circumstances, the individual will be granted rights of access to the materials and/or allowed to take away copies. In general, researchers will only be allowed to retain copies of primary research data, but will be given permission to retain the originals of other materials, such as original writings and artwork. All such rights shall be conditional on the individual providing appropriate acknowledgement to the University, and any of its employees who contributed to the research, in any subsequent outputs arising from the research.

Collection and Storage of Samples

13 Samples taken/provided for analysis (e.g. of animal, plant or microbial origin) should be collected, stored, labelled and (where appropriate) disposed of in compliance with all ethical, Health and Safety and other regulatory provisions in force, including the Nagoya Protocol governing the fair access to genetic resources in other countries (see https://www.cbd.int/abs/nagoya-protocol/signatories/default.shtml) and UK import licence requirements. The labelling system employed should ensure that samples cannot be mis-identified.

Publishing Results

14 Once any issues relating to confidentiality and IPR have been addressed, research findings should be disseminated so that they can be assessed by peers and more widely; this is usually a condition of research funding. The most common routes for the dissemination of research findings are publication in peer-reviewed journals (or other equally reputable publications) and presentation at research meetings (conferences, symposia etc.). Within this context there are a number of issues that researchers should be aware of when publishing results:

- To qualify for authorship an individual should have made a substantial contribution to the work, in terms of conceiving, executing or interpreting the research reported, and must accept personal responsibility for ensuring that they are familiar with the contents of the paper, and can identify their contributions to it. Authors should be listed in a way which is consistent with the relative contributions that each has made. The practice of honorary authorship is unacceptable.
- Contributions to the work made by individuals not listed as authors, and by sponsors or other organisations, should be properly acknowledged.
- It is common practice to present research findings at research meetings (conferences, symposia etc.) which are published as abstracts or short papers in conference programmes and/or proceedings. This may not preclude the research from being published in full as a paper in an appropriate journal. However, duplicate or ‘redundant’ publication of research findings in a journal, i.e. publication of a paper that overlaps substantially with one already published (and hence presents little or no new data or information), should generally be avoided. An exception may be granted if the paper is to be published in a different language, or is intended for a different group of readers, provided that the authors receive approval from the editors of both journals and refer to the first article in the second publication. When considering whether secondary publication of a research paper is justifiable, researchers are encouraged to consult the guidelines on acceptable secondary publication drawn up by the International Committee of Medical Journal Editors.

If an author discovers an error in a publication which degrades the worth of the reported findings, the author should immediately discuss the matter with the research leader, with a view to notifying co-authors and publishing a correction as soon as possible. Where the findings are found to be in serious doubt, a retraction should be published at the earliest opportunity.
In line with the University’s Self Archiving and Research Repository Policy mandate, all staff and research students will retain a final (accepted) author version of their output for deposition in the Abertay Research Portal in Pure, as follows:

i. Full text electronic copies, where publisher permissions allow, and/or bibliographic details where full-text deposition is not permitted, of all peer-reviewed research published from 1 January 2010

ii. Bibliographic details (including abstracts, where available) of peer-reviewed research published between 1 January 2001 and 31 December 2009.

iii. The electronic version of theses accepted for research degrees after 10th July 2009.

Following acceptance of the recommendations of the Working Group on Expanding Access to Published Research Findings (Finch Report) by the UK Government, and in line with changes to policies of many funding bodies, including RCUK and the EU, articles may have to be published only in publications which meet their criteria of Open Access. This requirement may require the payment of an article processing charge (APC).

Authors should contact their School’s Academic Librarian for help and advice on publication, including deposition of content in the Abertay Research Portal in Pure and associated issues regarding publisher permissions and copyright, as well as any queries related to Open Access. Authors may apply to the Abertay University Fund for Open Access Publications for support of APCs which if awarded should be acknowledged within the publication. The publication costs of funded research must be sought from the funders at an early stage during the application processes and this should be acknowledged upon publication.

Other Research Outputs

The publication of research results in paper format in the public domain, as described above, is only one type of research output; others include confidential reports for external bodies, electronic internet publications, software, patent applications, designs, compositions, performances etc. Appropriate recognition should be attributed to those who make a substantial contribution to the research which results in the production of such outputs and the contributions of collaborators, sponsors and all others who directly assisted or indirectly supported the research should be properly acknowledged.

Conflict of Interest

Conflicts of interest in research, whether perceived or actual conflicts, can cause considerable damage to the reputation of both the individual concerned and the University. Conflicts of interest arise when a researcher’s judgement is actually influenced, potentially influenced or may be perceived to be influenced by secondary interests such as financial or other personal gain and personal relationships (e.g. with sponsors, industry, politicians, family).

A good indication of whether a conflict of interest exists can be gained by asking the question ‘Would I feel comfortable if others learnt about my secondary interest in this matter or perceived that I had one, or if that interest was disclosed in the press?’ If the answer is no, then a conflict of interest probably exists.

Should a personal conflict of interest arise during the course of an individual’s research, the researcher should disclose this conflict to their Head of School as soon as possible. Should the researcher be unsure as to whether their situation constitutes a conflict of interest, or identifies that while there is no conflict others might perceive there to be one, they should also consult the Head of School in the first instance. Heads of School may consult the Chair of the School Research Ethics Committee(s), the Chair of the University Research Ethics Sub-Committee and/or the University Secretary in cases of doubt. Where a conflict of interest is
deemed to exist, the Head of School, the Chair of the School Research Ethics Committee and/or the Chair of the University Research Ethics Sub-Committee will, in full consultation with the researcher, agree on the appropriate course of action to be taken.

**Integrity in Submitting Research Proposals to External Sponsors**

18 Applicants for external research funding, and those responsible for authorising external applications, should take all reasonable measures to ensure the accuracy and completeness of all information submitted to external sponsors. Applicants should not seek to identify or approach external assessors during the appraisal process. All applications will be made via PURE’s ‘Add new’ application function.

**Integrity in Managing Research Projects**

19 Researchers should take all reasonable measures to ensure compliance with sponsor, institutional, ethical, safety and moral obligations in managing research projects/programmes. Research project leaders must ensure that any undue pressure exerted on them by external research sponsors, which leads them to feel compromised or exposes them to a conflict of interest, is brought to the attention of their Head of School, the Chair of the University Research Ethics Sub-Committee, the Chair of the Research and Knowledge Exchange Committee or the Head of Research and the Graduate School, as a first point of contact and confidential liaison. The Head of School, the Chair of the University Research Ethics Sub-Committee, the Chair of the Research and Knowledge Exchange Committee and the Head of Research and the Graduate School, will discuss individual anonymised cases together as and when they occur, and will notify the University Secretary if initial discussions reveal a case for formal investigation. The number of initial notifications and formal investigations will be reported annually to the Research and Knowledge Exchange Committee. Alternatively, individuals may raise their concerns about such matters via the University’s Public Interest Disclosure (Whistleblowing) Policy.

**Integrity in Reviewing Research Proposals and Articles Submitted for Publication**

20 Researchers who are invited to act as referees, panel members or committee members for the assessment of grant applications submitted to external sponsors, or as reviewers/editors for articles submitted for publication, should be aware of the responsibility this entails. In particular, they should treat all information made available to them in the strictest confidence, and decline an invitation to referee or withdraw from the relevant discussion(s) where there is a conflict of interest (personal or institutional) or where they consider themselves to be insufficiently expert to comment on a particular proposal or manuscript.

**Research Ethics**

21 Researchers and academics must be familiar with, and comply with, the standards of ethical conduct required by the law, external organisations (e.g. government bodies, sponsors) and the University. All research projects (including undergraduate research projects) require ethical approval at the School (or if necessary, University) level before the research starts. Where the research also requires the approval of an external Ethics Committee this must be obtained before the components of the research project requiring such approval start. In such cases approval must be granted from both the external and internal Ethics Committees.

22 Researchers should note that some external funders of research require ethical approval for a project prior to the submission of a grant proposal. Where this is the case, the researcher should seek such approval from the School Research Ethics Committees. In such cases, researchers are responsible for ensuring that the paperwork is submitted in a timely fashion affording the School Research Ethics Committees sufficient time to review the proposal.
When considering the ethics of their proposed research, researchers should consult the University’s Research Ethics guidelines. Researchers should pay particular attention to:

- The requirements for research involving human participants or human biological samples; this includes the need to ensure confidentiality of personal information relating to the participants in research, and that the research fulfills any legal requirements such as those of the Data Protection Act 1998 and the GDPR for Research Policy;

- The requirements for research involving animals; this includes the need to consider, at an early stage in the design of any research involving animals, the opportunities for reduction, replacement and refinement of animal involvement, and the need to ensure that the research complies with all Home Office regulations.

- The requirements for biological surveys overseas and subsequent research using organisms or samples back in the UK; this includes the need to consider the Nagoya Protocol governing the fair access to genetic resources in other countries; the organisation of permission or agreement from the host country, and the need to ensure that the research complies with all other appropriate regulations including UK import licence requirements.

- The requirements for research involving sensitive or extremism related research or terrorism-related research, including the need for the safe storage of security-sensitive research material [see UUK’s ‘Oversight of security-sensitive research material in UK universities: guidance” October 2012].

Researchers requiring further advice on ethical, legal and/or professional obligations and standards should seek advice from their Head of School, the Chair of their School Research Ethics Committee and or the Chair of the University Research Ethics Sub-Committee

Research Misconduct

Definition of Research Misconduct

24 In broad terms, research misconduct can be defined as wilful behaviour that breaches the principles of good conduct in research. For the purposes of the University’s Disciplinary Procedures ‘research misconduct’ is the wilful failure to comply with any part of this Code of Conduct. For the avoidance of doubt, research misconduct includes, among other things, the following (as defined by The Wellcome Trust):

25 The fabrication, falsification, plagiarism or deception in proposing, carrying out or reporting results of research or deliberate, dangerous or negligent deviations from accepted practices in carrying out research. It includes failure to follow established protocols if this failure results in unreasonable risk or harm to humans, other vertebrates or the environment and facilitating of misconduct in research by collusion in, or concealment of, such actions by others. It also includes intentional, unauthorized use, disclosure or removal of, or damage to, research-related property of another, including apparatus, materials, writings, data, hardware or software or any other substances or devices used in or produced by the conduct of research.

26 It does not include honest error or honest differences in the design, execution, interpretation or judgement in evaluating research methods or results or misconduct unrelated to the research process. Similarly it does not include poor research unless this encompasses the intention to deceive.

Examples of research misconduct include but are not limited to:
• Fabrication: the deliberate invention of research data/results
• Falsification: the deliberate distortion or omission of undesired data/results, including the dishonest misinterpretation of results
• Plagiarism: the deliberate unacknowledged presentation/exploitation of the work and ideas of others as one's own, including the misappropriation of published and unpublished material and other resources or outputs, and making unauthorised use of information and ideas in breach of confidentiality associated with peer review, supervision, collaboration with industry etc.
• Deception: the deliberate concealment of a conflict of interest or inclusion of deliberately misleading statements in research funding proposals or other documents
• Misquotation or deliberate misrepresentation of the results of other researchers
• Non-compliance: the wilful failure to comply with statutory and sponsor and professional body obligations (e.g. research ethics, safety, data protection, grant conditions)
• Inappropriate attribution of authorship
• Inciting others to be involved in research misconduct
• Collusion in or concealment of research misconduct by others
• Malicious unfounded accusation of misconduct against another

Research Degree Theses

27 Plagiarism Software may be used to investigate misconduct in Research Degree Theses. As a result, all theses must be accompanied by an electronic version of the bound work, including all figures, tables and illustrations in PDF format.

Reporting Research Misconduct

28 All staff, students and visiting researchers are required to report observed, apparent or suspected research misconduct. If an individual is unsure whether a suspected incident constitutes misconduct, they should first discuss the matter informally with their Head of School, the Chair of the University Research Ethics Sub-Committee, the Chair of the Research and Knowledge Exchange Committee or the Head of Research and the Graduate School, as a first point of contact and confidential liaison. The Head of School, the Chair of the University Research Ethics Sub-Committee, the Chair of the Research and Knowledge Exchange Committee and the Head of Research and the Graduate School, will discuss individual anonymised cases together as and when they occur, and will notify the University Secretary if initial discussions reveal a case for formal investigation. Where an individual, for whatever reason, is not satisfied with the outcome of the informal discussion, they should raise the matter with the University Secretary. The number of initial notifications and formal investigations will be reported annually to the Research and Knowledge Exchange Committee. Alternatively, individuals may raise their concerns about such matters via the University’s Public Interest Disclosure (Whistleblowing) Policy.

29 Note: An allegation of research misconduct is serious and potentially defamatory, and hence may be actionable in law. It should therefore be made, and dealt with, in the strictest confidence to ensure the protection of both the person making the allegation and the person against whom it is made. In line with the recommendations set out in the Concordat for Research Integrity the University will act with no detriment to whistleblowers making allegations of misconduct in good faith.

Dealing with Allegations of Research Misconduct

30 Allegations will be dealt with through the University’s Staff Discipline Procedure or the Student Disciplinary Code, which provide detailed written procedures for investigating misconduct and taking appropriate disciplinary action where necessary. These procedures will apply whether the alleged misconduct takes place while staff and students are based in the University or whilst conducting research in another institution or organisation; in the latter case,
the University will seek agreement on the appropriate course of action with the host institution. During the disciplinary process the University may seek the advice of external or internal experts in the field concerned.

31 The University Secretary will, at the earliest opportunity, inform research sponsors and/or statutory bodies of any substantiated allegation of research misconduct involving a researcher they fund. Sponsors will also be informed, in confidence, about any allegation involving a researcher they fund, where the nature of the allegation is such that the research cannot be allowed to continue until the allegation is refuted and/or there are reasonable grounds to believe that the allegation may be substantiated on investigation.
Acknowledgements

This Code of Conduct has been formulated with reference to the following documents:

BBSRC Statement on Safeguarding Good Scientific Practice. Biotechnology and Biological Sciences Research Council.  

http://www.gla.ac.uk/R-E/pub/policies/goodpractice.rtf

The Concordat to Support the Career Development of Researchers (2008)  
https://www.vitae.ac.uk/policy/concordat-to-support-the-career-development-of-researchers

http://www.universitiesuk.ac.uk/highereducation/Documents/2012/TheConcordatToSupportResearchIntegrity.pdf

The Concordat on Open Research Data. UKRI July 2016.  

European Commission. 2012. Press release: Scientific data: open access to research results will boost Europe’s innovation capacity. [online] available from:  


http://www.mrc.ac.uk/index.cfm/search-results/?keywords=good+research+practice&display=search&newSearch=true&noCache=1

Nagoya Protocol.  
https://www.cbd.int/abs/nagoya-protocol/signatories/default.shtml


Other Sources of Information


http://www.mrc.ac.uk/pdf-mis_con.pdf
Office of Research Integrity (ORI), U.S. Department of Health and Human Services.
http://ori.hhs.gov/
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