**Research Proposal Ethics Checklist**  

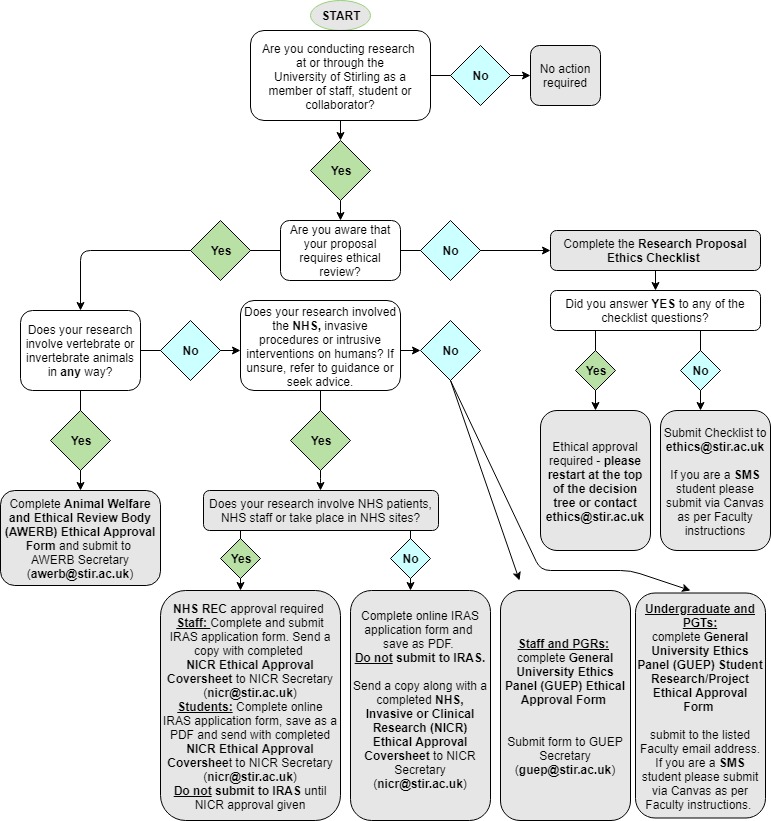
**STUDENT**

To ensure integrity and safeguard the interests of researchers, participants and funders, all research conducted at or through the University of Stirling by members of staff, students and collaborators is subject to internal ethical scrutiny **prior** to the commencement of research (**Figure 1**).

If you are aware that your research requires ethical approval by one of the Research Ethics Committees (RECs), completion of this checklist is **not** required. Please complete a **Research Proposal Ethical Approval Form** for the appropriate committee (see below) and submit this, along with any supporting documentation, via email to the committee secretary:

* **Animal Welfare and Ethical Review Body (AWERB)** – for research involving animals in any way (allnon-human vertebrates and invertebrates).
* **NHS, Invasive or Clinical Research (NICR)** – for health/patient research requiring approval by the NHS Research Ethics Committee and other research involving physically invasive procedures or intrusive interventions on human participants.
* **General University Ethics Panel (GUEP)** – for all other research (social, digital, environmental etc.).
* **Ethics Checklist -** If you are unsure about the ethical implications of your research, please complete the following Checklist. A completed and signed Checklist is required for **all** research proposals that have not been submitted for ethical review to one of the above committees. Once complete, this Checklist should be submitted to [ethics@stir.ac.uk](mailto:ethics@stir.ac.uk) apart from SMS students who should submit via Canvas.

**Figure 1: Ethics Decision Tree**

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**Applicant details**

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| **Name of applicant:** Anna Frances Rasburn |
| **Faculty affiliation:** Natural Sciences **Division:** NS Computing  **Overseas campus:** If applicable click here to enter overseas campus affiliation |
| **Designation:** Undergraduate student |
| **Email address of applicant:** afr00002@students.stir.ac.uk |
| **STUDENTS ONLY**  **Student ID number:** 2411187  **Degree programme:** Computing Science **Module code:** CSCU9Z7  **Supervisor name:** Dr Alexander Brownlee |
| **STAFF ONLY**  **Job title:** Click here to enter text |

**Project details**

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| **Project title:** Programming Java for Longer Battery Life | |
| **Project funder:** Click here to enter text | |
| **Project start date:** 12/09/2018 | **Project end date:** 30/04/2019 |
| **Short project description:**  The objective of this project is to find a way to change the way we programme Java (particularly in Android mobile applications) to reduce CPU power of the device so the application uses less battery life. | |

**Please complete all sections which apply to your proposed research by checking Yes or No to each question.**

**SECTION A: Researcher safety**

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| **A1.** Does the proposed research pose any particular risks to the researcher(s)?  Potential risks to consider include: working in a dangerous or isolated geographical area; lone working; working with equipment and manual handling; environmental hazards; chemical and biological hazards; and emotional risks associated with sensitive research. | **Yes  No** |
| If **YES** please provide brief details indicating the nature and level of risk (low, medium, high):  Click here to enter text | |
| |  | | --- | | ***PROCEED TO SECTION B*** | | |

**SECTION B: Research involving or impacting animals**

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| **B1. Does your research project involve animals in any way?**  If YES, please submit an application to the Animal Welfare and Ethical Review Body (AWERB) ([click here](https://stir.box.com/s/03p7ztbre4ognd1u85vrxh0yiqad7rho)). | **Yes  No** | |
| |  | | --- | | ***PROCEED TO SECTION C*** | | |

**SECTION C: Data protection, copyright and other considerations**

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| **C1.** Will the proposed research involve the collection of new information about individuals? | **Yes  No** |
| **C2.** Does the proposed research involve accessing records of personal or confidential information? | **Yes  No** |
| **C3.** Are you using information about individuals for a purpose it is not currently used for? | **Yes  No** |
| **C4.** Does the proposed research involve the recording or use of audio-visual material for which consent is required?  *Answer* ***NO*** *if you are making use of material for which appropriate consent has already been gained e.g. utilisation of established databases* | **Yes  No** |
| **C5.** Does the proposed research involve the [remote acquisition of data](https://stir.box.com/v/IMREthics) from or  about human participants using the internet and its associated technologies | **Yes  No** |
| **C6.** Does the proposed research involve accessing potentially sensitive data through third parties? | **Yes  No** |
| **C7.** Does the proposed research involve reproducing [copyrighted work](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/375954/Research.pdf) in published form (other than brief citation)? | **Yes  No** |
| **C8.** Does the proposed work involve activities, which could temporarily or permanently damage or disturb the environment, or archaeological remains and artefacts? | **Yes  No** |
| **C9.** Does the proposed work involve a potential conflict of interest or raise ethical issues regarding the source of funding or where publication of research data may be restricted? | **Yes  No** |
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**SECTION D: Research involving human participants**

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| **D1. Does the proposed research involve human participants?**  **If YES *PLEASE COMPLETE QUESTIONS D2 – D19 below***  **If you answer YES to any of these questions, please review the Flowchart at the top of the form.**  ***If NO PROCEED TO SIGN AND DATE FORM*** | **Yes  No** |
| **D2.** Does the proposed research involve the recruitment of staff or patients  through the NHS or the use of NHS data or premises and/or equipment? | **Yes  No** |
| **D3.** Does the proposed research involve physically invasive procedures? | **Yes  No** |
| **D4.** Is the proposed research study a clinical trial of an [investigational medicinal product?](http://www.ct-toolkit.ac.uk/glossary/?letter=I&postcategory=-1) | **Yes  No** |
| **D5.** Does the proposed research involve a non-CE marked [medical device](http://www.hra.nhs.uk/documents/2013/09/approval-of-medical-devices-research-version-2-april-2008.pdf) or a device which has been modified outside of its CE mark? | **Yes  No** |
| **D6.** Does the proposed research involve exposure to [ionising radiation](http://www.hra.nhs.uk/resources/before-you-apply/types-of-study/knowledgebase-ionising-radiation-2/)? | **Yes  No** |
| **D7.** Does the proposed research involve the processing of information held by the [Human Fertilisation and Embryology Authority](http://www.hfea.gov.uk/) (HFEA) without consent? | **Yes  No** |
| **D8.** Does the proposed research involve the [collection of tissue](https://www.hra.nhs.uk/planning-and-improving-research/policies-standards-legislation/use-tissue-research/) or other human material e.g. blood, biopsies, urine etc. | **Yes  No** |
| **D9.** Does the proposed research involve [intrusive interventions](https://stir.box.com/s/gjjxlyivsbhtk333m3jb0iu2n2oorku5) e.g. the administration of drugs or vigorous physical exercise? | **Yes  No** |
| **D10.** Does the proposed research involve the bodies or human materials from deceased persons? | **Yes  No** |
| **D11.** Does the proposed research involve interviews with participants or the use of questionnaires? | **Yes  No** |
| **D12.** Does the proposed research involve [vulnerable adults](http://www.gov.scot/Publications/2009/01/30112831/3)? | **Yes  No** |
| **D13.** Does the proposed research involve children and young people under the age of eighteen? | **Yes  No** |
| **D14.** Does the proposed research involve participants who have particular communication/linguistic or developmental requirements? | **Yes  No** |
| **D15.** Does the proposed research involve [sensitive topics](http://www.esrc.ac.uk/funding/guidance-for-applicants/research-ethics/research-that-may-require-full-ethics-review/)? | **Yes  No** |
| **D16.** Could the proposed research induce psychological stress, anxiety, humiliation or cause more than minimal pain? | **Yes  No** |
| **D17.** Does the proposed research involve [deception, concealment or covert observation](https://stir.box.com/s/gjjxlyivsbhtk333m3jb0iu2n2oorku5)? | **Yes  No** |
| **D18.** Does the proposed research involve prisoners or those on court orders? | **Yes  No** |
| **D19.** Will the proposed research be undertaken outside of the UK or involve participants from outside the UK? | **Yes  No** |

Applicants are strongly encouraged to complete the Research Integrity training that is available via [Canvas](https://canvas.stir.ac.uk/enroll/CJ43KW)

If you have answered **YES** to any of these questions, further ethical review is required. Please complete the appropriate **Research Proposal Ethics Approval form**. If you have answered **NO** to all of the questions, sign and date the form and email it to [ethics@cs.stir.ac.uk](mailto:ethics@cs.stir.ac.uk).

By signing below (digital signatures accepted), you certify that the information provided is true and correct to the best of your knowledge. Applicants should expect to get an acknowledgement within 48 hours that their checklist has been received. If you do not hear, please contact [ethics@cs.stir.ac.uk](mailto:ethics@cs.stir.ac.uk)

**STUDENTS**

**Applicant’s signature: Date:** 19/09/2018

**Supervisor’s signature: Date:** Click here to enter a date

**STAFF**

**Applicant’s signature:**  **Date:** Click here to enter a date

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| **FOR ADMINISTRATIVE USE ONLY:**  **Date received:** Click here to enter a date **Reference number:** Select year**/**Click here to enter number  **Checklist completed, signed and dated  For archiving  Query if further ethical review required**  **Notes:**  Click here to enter text |