

Application summary

Application title

Length of project (weeks)

Proposed start date

Name of administering organisation

Lead applicant's address at administering organisation

Department/Division

Organisation

Street

City/Town

Postcode/Zipcode

Country

Science stream

Indicate the relevant Science stream for the proposed research.

Lead applicant

Lead applicant details

Full Name

Department

Division

Organisation

Address Line 1

City/Town

Postcode

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| Country | |
| Telephone No. | |
| Email Address | |

| Education/training | | | | |
|---------------------------|-----------|----------------------|----------------|---------------------|
| From | To | Qualification | Subject | Organisation |
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Current degree course

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| Year of course (for example, second year of a three year course = 2/3) |
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| Summary of university courses/modules taken and completed (with results) |
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| Please provide the average score of all modules taken, presented either as a percentage or equivalent to the class of degree |
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| Supporting information |
| Please explain how your project will contribute to the improvement of health (100 words max.) |
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| Why do you wish to apply for a Vacation Scholarship and what are your career intentions at present? (150 words max.) |
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| Have you had any other research experience (apart from your course projects)? | |
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| Please describe (100 words max.) |
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| <p>Recommendation by applicant's present tutor Please upload a letter of support from your current tutor (200 words maximum).</p> <p>If results of the university courses/modules taken and completed so far have not been provided, the tutor should include an evaluation of the standard of the work completed to date.</p> |
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Supervisors

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| Project supervisor | |
| Full Name | |
| Department | |
| Division | |
| Organisation | |
| Address Line 1 | |
| City/Town | |
| Postcode | |
| Country | |
| Telephone No. | |
| Email Address | |

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| Title of current post |
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| Date of appointment | |
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| Expected date of termination | |
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Source(s) of personal salary support

Have you supervised Wellcome Trust Vacation Scholars before?

Please provide names

Will a member of your laboratory, other than you, be providing close day-to-day supervision of the student?

Please provide the following details for that individual:

Name, including title (e.g. Professor, Dr)

Title of current post

Expected date of termination

Related applications

Have you applied for a Wellcome Trust Vacation Scholarship before?

Please provide details

Have you applied elsewhere for a vacation research period this year?

To which organisation(s) have you applied and when will you know the result? Please note that if you accept another scholarship you are expected to inform the Trust immediately.

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| Have you previously held a Vacation Scholarship, funded either by the Wellcome Trust or another funding agency? | |
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| Please provide details |
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Research summary

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| Research summary Please provide a summary of your proposed research, including key goals, for an expert audience (200 words max.) |
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| Lay summary Please provide a summary of your proposed research, including key goals, for a non-expert audience (200 words max.) |
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Details of research project

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| Description of the proposed project outlining: i) Background to the project; ii) Aims and objectives, including any key hypotheses to be tested or questions to be asked, what you hope to achieve during the period of research; |
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- iii) Experimental design and methods;
- iv) Brief outline of a timetable of work.

Please note that continuation of undergraduate projects will not be considered.

No more than **700** words should be used to describe the proposal.

(700 words max.)

You may submit up to two A4 pages of additional information (such as graphs, figures, tables and essential unpublished data).

References

You should give the citation in full, including title of paper and all authors.

What techniques/training will the scholarship provide? (150 words max.)

How does this research relate to work being carried out in the supervisor's laboratory? (100 words max.)

Synchrotron radiation sources

Will the proposed research require access to a synchrotron source?

Which source(s) will you be applying to? (Please select all that apply)

Please specify:

Currency requested

Please select the currency in which you wish to apply.

Is the selected currency your local currency?

What is your local currency?

Please state clearly the reasons for requesting costs in the selected currency (100 words max.)

Research involving human participants, human biological material and identifiable data

Does your project involve human participants, human biological material, or identifiable/potentially identifiable data?

Please state by whom and when the ethics of the project has been, or will be, reviewed and specify any other regulatory approvals that have been obtained, or will be sought.

We reserve the right to see relevant approval documents at any point during the lifetime of the grant, in accordance with our policy position on research involving human participants.

In the course of your project, do you propose to use facilities within the National

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| Health Service (NHS) or to involve patients being cared for by the NHS? | |
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| Is a formal sponsor required for the project, for example under the Medicines for Human Use (Clinical Trials) Regulations or the Research Governance Framework for Health and Social Care and equivalent guidance? | |
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| Please indicate which organisation(s) has/have agreed to fulfil this role. Please note that the Wellcome Trust cannot act as sponsor. |
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| If any potentially commercially exploitable results may be based upon tissues or samples derived from human participants, please confirm that there has been appropriate informed consent for such use. |
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Proposals involving animals

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| Please indicate which of the following apply: <i>(Proposal involves the use of animals, Proposal involves the use of animal tissue, Neither of the above)</i> |
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| Do your proposals include procedures to be carried out on animals in the UK which require a Home Office licence? If yes, refer to notes. | |
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| Do your proposals involve the use of animals or animal tissue outside the UK? If yes, refer to notes. | |
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| If your proposals do involve the use of animals, what would be the severity of the procedures? |
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| Please provide details of any procedures of substantial or moderate severity (250 words max.) |
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| Why is animal use necessary: are there any other possible approaches? (250 words max.) |
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| Indicate which of the following species will be used (<i>Primate, Cat, Dog, Equidae, Genetically Altered Animals, Other animals</i>) |
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| Why is the species to be used the most appropriate? (250 words max.) |
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| Justification for animals (number and species) to be used Please include evidence or calculations for experimental group sizes, and describe any plans to reduce bias (e.g. blinding, randomisation). (500 words max.) |
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Primates

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| Do you expect facilities and practices, and the proposed research will comply with the principles set out in the 'National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs) Guidelines: Primate accommodation, care and use' ? | |
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| Please explain why not |
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| Will it be necessary to transport the non-human primates (i.e. from breeding facility and within the host organisation environment)? | |
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| Indicate approximate journey times and the measures that will be taken to minimise the potential stress during transport. |
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| Please provide details of the housing for the animals, e.g. enclosure size, environmental enrichment. |
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| Will single housing of the non-human primates be necessary at any time? | |
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| Please provide details in terms of the justification for single housing, its duration, and what additional resources will be provided to the animals to minimise the impact on animal welfare. |
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| Describe the experimental procedures involved and how any pain, suffering, distress and/or lasting harm will be minimised. Have the procedures been recently reviewed by the Named Veterinary Surgeon (NVS), Named Animal Care and Welfare Officer (NACWO) and ethical review process (ERP)? |
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| Will any of the experimental procedures involve food and/or water restriction? | |
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| Justify why this is necessary and outline what alternatives have been considered. |
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| Will any of the experimental procedures involve restraint? | |
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| What alternatives have been considered? Describe the nature of the restraint, its duration and frequency, and what will be done to avoid distress. |
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| What prior experience and training in non-human primate use, care and welfare have the staff named in the application had? What provision is made for continuing professional development in these areas? |
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| Will any of the staff involved require specific training for any of the procedures concerned? | |
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| Please provide details of the training needed and where it will be undertaken. |
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Cats and Dogs

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| From where will the animals be sourced? |
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| Will it be necessary to transport the animals? | |
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| Indicate approximate journey times and the measures that will be taken to minimise the potential stress during transport. |
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| Are animals to be imported? | |
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| Where animals are to be imported, what journey times have been agreed with the Home Office? Describe the conditions for the animals at the breeding establishment and how the potential stress during transport will be minimised. |
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| Please provide details of the housing for the animals, e.g. enclosure size, environmental enrichment. |
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| Will single housing of the animals be necessary at any time? | |
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| Please provide details in terms of the justification for single housing, its duration, and what additional resources will be provided to the animals to minimise the impact of the single housing. |
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Describe the experimental procedures involved and how any pain, suffering, distress and/or lasting harm will be minimised. Have the procedures been recently reviewed by the Named Veterinary Surgeon (NVS), Named Animal Care and Welfare Officer (NACWO) and ethical review process (ERP)?

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| Will any of the experimental procedures involve restraint? | |
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What alternatives have been considered? Describe the nature of the restraint, its duration and frequency, and what will be done to avoid distress.

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What prior experience and training in animal use, care and welfare will be required of the staff named in the application? What provision is made for continuing professional development in these areas?

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| Will any of the staff involved require specific training for any of the procedures concerned? | |
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Please provide details of the training needed and where it will be undertaken.

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Award administration

Please provide contact details for the person within the organisation responsible for administering any award, if successful

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| Title |
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|-------------------|
| First name |
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| Surname |
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| Contact address |
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| Email address |
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|---------------------------|
| Telephone number 1 |
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| Telephone number 2 |
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Wellcome Trust supported facilities

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| <p>Will the research project be based in one of the following Wellcome Trust supported facilities:</p> <ul style="list-style-type: none">• the Wellcome Trust Sanger Institute• a Wellcome Trust Centre• a Major Overseas Programme• the Francis Crick Institute? | |
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| Please specify |
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