

Application summary

Type of award

Please select the type of award you are applying for

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Application title

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Proposed duration of funding (months)

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Proposed start date

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Name of administering organisation

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Lead applicant's address at administering organisation

Department/Division	
Organisation	
Street	
City/Town	
Postcode/Zipcode	
Country	

Summary of the Equipment, Biomedical Resource or Technology Development for which support is sought. (30 words max.)

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Research funding area

Please select from the drop-down list the funding area that you consider your research falls under

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Lead applicant

Lead applicant details	
Full Name	
Department	
Division	
Organisation	
Address Line 1	
City/Town	
Postcode	
Country	
Telephone No.	
Email Address	

ORCID iD	
ORCID iD	

Career history (current/most recent first)				
From	To	Position	Organisation	

Education/training				
From	To	Qualification	Subject	Organisation

Source(s) of personal salary support

Clinical status	
Do you have a medical/veterinary degree?	

Please specify

Are you clinically active?	

What is your specialty?

Please specify

Career breaks

Have you had any career breaks or periods of part-time work, for example parental or long-term sick leave?

Please provide details

Do you wish to undertake this award part time?

Details of any relevant previous experience of managing a resource, a technology or equipment. (350 words max.)

Career contributions

What are your most important research-related contributions to date? These may include contributions to health policy or practice, or to technology or product discovery and development. (350 words max.)

Peer-reviewed publications and other research outputs

List up to 20 of your most significant peer-reviewed publications, preprints, or other scholarly research outputs, e.g. patents. Please ensure that at least five of these are from the last five years. For 10 of these outputs, you may also provide a statement describing their significance (up to 50 words per output).

For original research publications indicate those arising from Trust-funded grants in **bold**, and provide the PubMed Central ID (PMCID) reference for each of these. Please refer to guidance notes.

Please give citation in full, including title of paper and all authors Citations to preprints should state "Preprint", the repository name and the articles persistent identifier (e.g DOI).*

(*All authors, unless more than 10, in which case please use 'et al', ensuring that your position as author remains clear.)

Total number of peer-reviewed publications which you have authored/co-authored. Please exclude abstracts and literature reviews.

Are you a named author on any Wellcome Trust funded original peer-reviewed research papers, published from October 2009 onwards?

Are all your Wellcome Trust funded original peer-reviewed research papers, published from October 2009 onwards, compliant with our open access policy?

Current research funding (including Wellcome Trust grants)

Please list all active grants only (starting with the most recently awarded). State the name of the awarding body, name(s) of grantholder(s), title of project, amounts awarded, your role in the project, and start and end dates of support. Indicate the number of hours per week that are spent on each project.

Please describe how the currently active grants listed above relate to this application (200 words max.)

Time spent on research

How many hours per week do you spend on research?

How many hours per week will be spent on this project?

Applicants

1

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

Career history (current/most recent first)				
From	To	Position	Organisation	
Education/training				
From	To	Qualification	Subject	Organisation

Source(s) of personal salary support

Details of any relevant previous experience of managing a resource, a technology or equipment. (350 words max.)

Career contributions
What are your most important research-related contributions to date? These may include contributions to health policy or practice, or to technology or product discovery and development. (350 words max.)

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Please describe how the currently active grants listed above relate to this application (200 words max.)

Time spent on research

How many hours per week do you spend on research?

How many hours per week will be spent on this project?

Collaborators

Will you require any key collaborators for this proposal?	
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Please list any key collaborators* (name and organisation) and provide a very brief outline of their role in the proposed activity. <i>*The collaborators named may be replaced with suitable alternatives should it be necessary or appropriate to do so.</i>

I confirm that the collaborators named above have agreed to be involved, as described, in the proposed activity and are willing for their details to be included as part of this application.

Related applications

Is this or a similar application for funding currently under consideration elsewhere?	
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Please provide name(s) of funding organisation(s) and decision date(s)

Is this a resubmission of an application submitted to the Trust within the last 24 months?	
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Please describe how this application differs from the original (200 words max.)

Summary of proposal

Proposal summary

Please provide a summary of your proposal, including key goals, for an expert audience (200 words max.)

Lay summary

Please provide a summary of your proposal that people who may not be familiar with the subject can understand. We may edit your summary and then use it to describe your research on our website and elsewhere.

Details of resource, technology development or equipment

For Biomedical Resource and Technology Development applicants only:

Please describe (i) the resource or technology development requested; (ii) the 'added value' it will bring; (iii) the community need for the resource or technology development (please upload letters of support and make reference to the availability of similar resources/technology, if appropriate); (iv) how the resource or technology development will enhance the scientific programmes of the applicants and/or the research community; (v) the approach and methods to be used to create the resource or to develop the technology, including timetable and milestones (indicating any relevant information from your business plan for developing long-term financial sustainability, if appropriate); (vi) plans for promoting and/or disseminating the resource or technology development; (vii) the regional, national (and international, if appropriate), context of the application, including any joint funding arrangements; (viii) any relevant background information.

(3000 words max.)

For Multi-user Equipment applicants only:

Please describe (i) the equipment requested including a scientific justification for the type and model; (ii) details of the research projects that will benefit from the equipment, how they are funded, and how the equipment will enhance the scientific outputs of the projects; (iii) details of similar equipment in the applicants' departments and adjacent departments and the reasons why it cannot be used for the purposes described; (iv) details of others who may benefit from the requested

equipment; (v) the regional, national (and international, if appropriate), context of the application, including any joint funding arrangements; (vi) any relevant background information.

(3000 words max.)

Does your proposal involve a clinical trial?

Clinical trial details

What are the proposed participating centres, and the roles of the clinical trial team members? Provide details of any activity to be undertaken by a third party, and comment on the plans to ensure the presence of a formal contract.
(200 words max.)

Please describe the study design, including planned interventions (experimental and control), duration of treatment, and any potential significant risks to participants. Details of any investigational product should be provided with particular regard to manufacture, quality and consistency.
(300 words max.)

Describe the inclusion/exclusion criteria. What are the proposed methods for protecting against sources of bias? What are the proposed arrangements for allocating participants to trial groups?
(200 words max.)

What are the envisaged primary and secondary outcome measures, and how will these be assessed at follow up? Describe the proposed frequency and duration of follow up and any anticipated problems with non-compliance and/or loss to follow up.

(200 words max.)

Detail and justify the sample size and proposed statistical analysis, including any interim analyses and/or subgroup analyses. Outline and justify the strategy for recruitment.
(200 words max.)

How have patients, patient advocacy groups or communities been involved in developing the clinical aspects of this proposal?
(300 words max.)

Describe anticipated regulatory and governance approvals, and the proposed arrangements for trial management. What is the proposed membership of the Trial Steering Committee and the Data Monitoring and Ethics Committees?
(200 words max.)

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

For Biomedical Resource applicants only:

Supporting statement from host organisation

Please upload a letter or statement from your host organisation outlining their commitment to the longer-term sustainability of the resource.

For Biomedical Resource and Technology Development applicants only:

Letters of support

Please upload letters of support from user communities. You should include a summary table listing who has provided these letters.

For Multi-user Equipment applicants only:

Supporting statement from host organisation

Please upload the supporting statement from your host organisation, signed by an appropriate senior authority, indicating how the request for equipment fits with the overall strategic context of the organisation (referring to any other current multi-user equipment applications submitted to the Trust from your organisation, if appropriate), taking into consideration regional and national contexts if appropriate.

Key references

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

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Are there any papers listed in your 'Key references' section as being "in press" that you wish to submit to us?	
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Upload papers "in press"

Scientific and technical management

Provide details of: (a) the sharing and management of the equipment, resource or technology development, including how access will be managed and prioritised (if appropriate); (b) any specialist expertise or technical support required and who will provide this; (c) proposed plans for the long-term sustainability of the equipment, resource or technology development. (1500 words max.)

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You may attach supporting information demonstrating future sustainability, e.g. extracts from business plans. Details of any proposed management or advisory committees may also be uploaded.

Data management and data sharing

Will the proposed research generate data or software outputs that hold significant value as a resource for the wider research community?	
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Please provide a data management and sharing plan (700 words max.)
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Contributions

Please list all financial contributions, or equivalent, provided by the host organisation or other sources. Please refer to guidance notes.

Contributor	Details of contribution	Value	Currency
			-

Public engagement

Do you have plans for engaging with the non-academic public about your work?	
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Please provide a brief outline of your public engagement plans (250 words max.)

Please note that we provide support for Wellcome Trust funded researchers to engage with the non-academic public. Do you wish to receive information about training, funding and other public engagement opportunities?	
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Location of activity

Will the funded activity take place at more than one location?	
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For each location, select the country and, where applicable, state the organisation (please include the administering organisation).	
Country	Organisation

Will the funds awarded be allocated to more than one location?	
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For each location, please select the country, state the organisation and enter the value and currency of funds to be allocated. Please include the administering organisation.

Country	Organisation	Value of funds	Currency
			-

Costs requested and justification

Please select the currency in which you wish to apply.

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Is the selected currency your local currency?

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What is your local currency?

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

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Salaries

Are you requesting salaries?

Please refer to guidance notes and definition of terms for further details.

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Salaries / Stipends

Staff category	Name (if known)	Basic starting salary (p.a.)	Salary grade / scale	Period on project (months)	% time	Total

Materials and consumables

Are you requesting materials and consumables?

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Materials and consumables

Description	Total

Animals

Are you requesting animals?

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Animals

Animal species	Total no. to be purchased	Total purchase cost	Total no. to be maintained	Average weeks' maintenance per animal	Total maintenance and procedures cost	Total

Associated animals costs

Description	Total

Justification for animals (number and species) requested

Please include evidence or calculations for experimental group sizes, and describe any plans to reduce bias (e.g. blinding, randomisation).
(500 words max.)

Equipment

Are you requesting equipment or equipment maintenance?

Equipment

Type of equipment	No. of items	Cost per item	Cost of maintenance contract	Contribution from other sources	Total

Maintenance for existing equipment

Details of equipment/ facility	Wellcome Trust grant number	Date of purchase	End date of current contract	Total cost of contract	% time on project	Total

Are you requesting a piece of equipment with a list price of £100,000 or more?

Please provide a statement from the Director of Procurement/Head of Purchasing (or equivalent), outlining the rationale for selection of preferred manufacturer/suppliers for each piece of equipment with a list price of £100,000 or more, including a brief summary of quotes received and the level of discount negotiated (no more than 400 words).

Access charges Are you requesting access charges?	
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Access charges

Details of equipment/facility	Original source of funding	Wellcome Trust grant number, if applicable	Standard access charge per unit	Specify unit	No. of units to be used for this project	Total

Travel and subsistence Are you requesting travel and subsistence?	
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Travel and subsistence

Description	Total

Miscellaneous costs Are you requesting miscellaneous costs?	
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Miscellaneous other

Type	Description	Total

Are you requesting research management costs under the miscellaneous costs heading? (for applicants from low- and middle-income countries only)	
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Please upload a letter from the Finance Director of the host organisation confirming that your request for research management costs is a true representation of the costs incurred.

<p>Justification for resources requested Please provide a complete justification for all the resources requested, ensuring that you present this information according to the cost headings requested above. (700 words max.)</p>

Full economic costing

Is your organisation based in the UK?

Is your organisation calculating the full economic cost of this proposal?

What is the total full economic cost (£)?

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 confirm that you have read the Trust's guidance on the feedback of health-related findings in research and that you are in the process of considering your approach to this.

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.

Is the proposed clinical trial covered by The Medicines for Human Use (Clinical Trials) Regulations in the UK?

Please confirm that the trial will be registered on the International Standard Randomised Controlled Trial Number Register (ISRCTN), ClinicalTrials.gov, or on another register listed on the WHO International Clinical Trials Registry Platform (ICTRP).

In the course of your project, do you propose to use facilities within the National Health Service (NHS) or to involve patients being cared for by the NHS?

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?

Please indicate which organisation(s) has/have agreed to fulfil this role. Please note that the Wellcome Trust cannot act as sponsor.

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.

Proposals involving animals

Will the funds on this grant be used directly for animal research?

Please indicate which of the following apply:
(*Proposal involves the use of animals, Proposal involves the use of animal tissue, Neither of the above*)

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.

Do your proposals involve the use of animals or animal tissue outside the UK?
If yes, refer to notes.

If your proposals do involve the use of animals, what would be the severity of the procedures?

Please provide details of any procedures of substantial or moderate severity
(250 words max.)

Why is animal use necessary: are there any other possible approaches?
(250 words max.)

Indicate which of the following species will be used
(*Primate, Cat, Dog, Equidae, Genetically Altered Animals, Other animals*)

Why is the species to be used the most appropriate?
(250 words max.)

Primates

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' ?

Please explain why not

Will it be necessary to transport the non-human primates (i.e. from breeding facility and within the host organisation environment)?

Indicate approximate journey times and the measures that will be taken to minimise the potential stress during transport.

Please provide details of the housing for the animals, e.g. enclosure size, environmental

enrichment.

Will single housing of the non-human primates be necessary at any time?

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.

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)?

Will any of the experimental procedures involve food and/or water restriction?

Justify why this is necessary and outline what alternatives have been considered.

Will any of the experimental procedures involve restraint?

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?

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.

Cats and Dogs

From where will the animals be sourced?

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.

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.

Please provide details of the housing for the animals, e.g. enclosure size, environmental enrichment.

Will single housing of the animals be necessary at any time?

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.

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)?

Will any of the experimental procedures involve restraint?

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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Risks of research misuse

Please confirm that you have considered whether your proposed research could generate outcomes that could be misused for harmful purposes.

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Have you identified any tangible risks of this type?	
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Please briefly describe these risks and the steps that you and your organisation will take to manage them
(250 words max.)

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Freedom to operate/conflicts of interest

Describe any freedom to operate issues or potential conflicts of interest that have been identified or that might arise and how these will be or have been addressed.

In particular, please consider the following:

- Do any of the individuals involved in the project hold any consultancies or equities in, or directorships of, companies or other organisations that might have an interest in the results of the proposed activity?
- Will the proposed activity use technology, materials or other inventions that are subject to any patents or other form of intellectual property protection?
- Will any element of the activity be subject to agreements with commercial, academic or other organisations, including arrangements with collaborators named in the grant application, that might lead to intellectual property issues or restrictions?

(350 words max.)

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Wellcome Trust supported facilities

<p>Will the 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