**International Alliance for Cancer Early Detection (ACED)**

**Project Award Funding Application**

1. **Application Summary**

|  |  |
| --- | --- |
| Research project title: |  |
| Lead applicant 1: | *Name and institution* |
| Lead applicant 2: | *Please add more rows for ‘Lead applicants’ as necessary.* |
| Proposed start date:  *As a guideline, to allow completion of post-award processes, projects are not anticipated to start until June 2024 onwards.* |  |
| Duration of proposal (months): |  |
| Total amount requested (UK): | *£ - Insert the total amount requested from each UK Member Centre here (e.g. Manchester request £, UCL request £, Cambridge request £).* |
| Total amount requested (US): | *$ - Insert the total amount requested from each US Member Centre here (e.g. Stanford request $, OHSU request $).* |

* 1. **Collaborative team**

**Provide details of the collaborative team in addition to the ‘Lead applicants’ for this award in the table below; please add more rows if necessary.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Affiliation** | **Role (e.g. co-investigator (someone who’ll give significant intellectual input into your research; they’ll be responsible for the day-to-day running of some of your work) or collaborator (someone who’ll supply research materials, specific expertise or patient access, but won’t be involved in the day-to-day running of your research)** |
|  |  |  |
|  |  |  |

Note: For applications involving the Stanford Canary Center, a full Center member must be included as part of the application, full list available here: <https://canarycenter.stanford.edu/people/full-members.html>.

1. **Information on ‘Lead applicants’**

**Provide details of the ‘Lead applicants’ for this award in the tables below; please add more rows or columns as necessary.**

|  |  |  |
| --- | --- | --- |
|  | Lead applicant #1 | Lead applicant #2 |
| Are you applying for your own support? |  |  |
| Is your current position funded for the duration of the applied award? |  |  |
| What is the source of your current funding? |  |  |
| What is your primary profession? |  |  |
| Are you a clinician? |  |  |
| Number of hours per week contributing to this research project? |  |  |
| Total number of hours per week spent on all research projects? |  |  |

* 1. **Qualifications**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Date (dd/mm/yy)** | **Qualification** | **Awarding Institution** |
| Lead applicant #1 |  |  |  |
|  |  |  |  |
| Lead applicant #2 |  |  |  |
|  |  |  |  |

**2.2 Positions held in the last 5 years.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Start date (mm/yy)** | **End date (mm/yy)** | **Job title** | **Supervisor / Line Manager** | **Location** |
| Lead applicant #1 |  |  |  |  |  |
|  |  |  |  |  |  |
| Lead applicant #2 |  |  |  |  |  |
|  |  |  |  |  |  |

**2.3 Publications**

|  |  |
| --- | --- |
|  | **3-5 Most relevant publications from the last 5 years that support this application** |
| Lead applicant #1 |  |
| Lead applicant #2 |  |

**2.4 Key Research Achievements of ‘Lead applicants’**

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| --- |
| Please highlight 3-5 key research achievements and outputs (e.g. preprints, training delivered, contribution to consortia, community outreach, patents, key datasets, software, novel assays and reagents etc.). Describe what you have discovered/developed, why it’s important and what its impact and influence have been in your field. **Maximum 300 words per Lead applicant.** |
|  |

1. **Collaborative Partners External to ACED**

**Please provide details of any collaborative partners external to ACED (e.g. not part of the 5 partner institutions), clearly articulating how named collaborators fill a necessary gap of expertise/resource that is unavailable within ACED Member Centres. Please provide a Letter of Support for external collaborative partners.**

|  |  |
| --- | --- |
| Name of collaborative partner: |  |
| Is this collaborative partner a named ‘Affiliate member’? | *Affiliate members are named individuals that your Member Centre Director has approved to work with that are external to the Alliance.*  *Check with your local ACED Programme Manager if you are unsure.* |
| ‘Institutional Affiliates’ (*where applicable*) | *Institutional Affiliates are required to be approved by Member Centre Directors.*  ***You must contact your local ACED Programme Manager in the first instance if you are considering adding an Affiliate member on your project.*** |
| Role: |  |
| Number of hours per week contributing to this research project: |  |
| Description of participation in this project, including any technologies, techniques or skills to be employed which are unavailable within ACED: | |
|  | |

1. **Research Proposal**

**4.1 Research and Lay Abstract**

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| --- |
| Research Abstract  Provide a scientific abstract for your proposal below. **Maximum 250 words.**  **Please note this information may be shared publicly by CRUK and ACED Centres.** |
|  |
| Lay Abstract  Provide a description of your proposal in language accessible to a non-scientific audience.   * It should be written in plain English, avoid the use of jargon and explain any technical terms or acronyms that have been included. * It should clearly articulate the clinical context and current and/or future patient/population impact of your work. * It should make clear the type of cancer you are targeting * It should provide a clear rationale for why this research is being conducted and its design * Please consider using:   + short sentences (max 15 to 20 words)   + headings to break up the text   **You are strongly encouraged to engage with the ACED Patient and Public/Advocacy Panel as early as possible in the preparation of your application. Please contact Karolin Kroese (**[**Karolin.Kroese@cancer.org.uk**](mailto:Karolin.Kroese@cancer.org.uk)**) for details.**  **Maximum 250 words.**  **Please note this information may be shared publicly by CRUK and ACED Centres.** |
|  |

**4.2 Research Proposal**

|  |
| --- |
| Please consult the ACED Project Award Guidance for completing your research proposal, including required content (Section 2.2 of the Guidance, table within this section describes the content required). **This section should not exceed eight standard pages, including figures, but excluding references.** |
|  |

**4.3 The importance to early detection of primary cancer**

|  |
| --- |
| How will the proposed research make a step-change in primary early detection research? Please clearly detail the primary early detection niche the proposed research aims to address. **Maximum 300 words.** |
|  |

**4.4 Benefit to the wider Alliance community**

|  |
| --- |
| Please explain how this proposed work is enabled by ACED, and how it extends beyond all currently on-going work in the applicants’ groups, current sources of funding and any existing collaborations between applicants.  Detail the actual and potential benefits to the wider Alliance community, including any infrastructural benefits, knowledge exchange, data sharing, etc. **Maximum 400 words.** |
|  |

**4.5 Data Sharing Plan**

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| --- |
| Briefly outline your data sharing plan for this application, including for researchers outside the Alliance. **Maximum 350 words.** |
|  |

1. **Additional Research Information**

**5.1 Animal Studies**

|  |  |
| --- | --- |
| Does the proposed research involve the use of animals? **If no, continue to 5.2.** |  |
| Animal species used: |  |
| Are any of these animals genetically modified? |  |
| Status of license covering animal usage: |  |
| Please provide details of any animal studies you will use in your research, addressing the questions outlined in the ACED Project Award Guidance (Section 2.3 of the guidance, relevant heading in the provided table).  For any animal studies to be performed outside of the UK, we also require a letter to be included with this application from the relevant applicant leading this work to confirm that the research proposed will adhere to all relevant local regulatory systems, and also that the welfare standards will be consistent with UK standards. | |
|  | |

**5.2 Human Studies**

|  |  |
| --- | --- |
| Does the proposed work involve human tissue samples? **If no, continue to 5.3.** |  |
| Does the work require approval from the appropriate research ethics service? |  |
| Research ethics application status: |  |

**5.3 Other Regulatory Approvals**

|  |  |
| --- | --- |
| Have you considered the pathway to UK/US regulatory approval for clinical translation of novel medical devices/in vitro diagnostics? |  |
| **If no**, please note that ACED Clinic Cambridge offers 1:1 regulatory advice for Alliance members see here: https://www.earlycancer.cam.ac.uk/aced-cambridge/regulatory-advice-aced-members | |
| Does the work require other regulatory approval? |  |
| If yes, please describe the type, status and the license number: | |
|  | |

**5.4 Human Stem Cell Research**

|  |  |
| --- | --- |
| Does the work involve the use of any human stem cells? |  |
| If yes, please describe the human stem cell types below. | |
|  | |

**5.5 Commercial Outputs**

|  |  |
| --- | --- |
| Do you anticipate that the proposed work will result in any output which can be translated to cancer patient benefit or otherwise commercialised? |  |
| If yes, briefly describe any commercial and/or translational opportunities from the proposed  work: | |
|  | |

**5.6 Cancer Type**

What type of cancer(s) is your proposal relevant to?

|  |
| --- |
| Type of cancer: |
|  |

**5.7 Scientific Discipline**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Please define what you consider to be the Lead Applicants’ major scientific discipline/field of study: Please pick from the following: | | | | |
| * Biological Science (incl Genetics), * Chemical Science, * Computer Science (incl Computational Biology), * Engineering, * Health Science (incl Epidemiology, Primary Care), | | | * Mathematics and Statistics, * Medicine (Basic and Clinical), * Nano-technology, * Physical Science, * Social Science (incl Psychology), * Other (please define) | |
| Lead Applicants | | Discipline | | Extra information if necessary |
| #1 |  | Insert discipline from list | |  |
| #2 |  | Insert discipline from list | |  |
| #3 |  | Insert discipline from list | |  |
| #4 |  | Insert discipline from list | |  |
| #5 |  | Insert discipline from list | |  |

**5.8 Research Classification**

|  |  |  |
| --- | --- | --- |
| Please select which type of research you consider is most closely associated with this project  (select one) | | |
| Biomarker Discovery |  | Discovery of new biomarkers/patterns of cancer |
| Mechanistic Discovery |  | Understanding the mechanisms of early disease progression from normal to pre-cancer to cancer |
| Translational |  | Moving findings from the bench to the clinic, e.g. test development. |
| Clinical |  | Patient-oriented research conducted with human subjects aiming towards improvement in health. |
| Epidemiology and Risk Stratification |  |  |
| Training |  |  |
|  |  |  |

**5.9 Research Categories**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Please select from the following categories which you consider most relevant to the project  (select all that apply) | | | | | | | |
|  |  | |  | | | |  |
| Biomarker Discovery/Validation | |  | | Other Tech Development | | |  |
| Biological/In Vitro Models | |  | | Omics | | |  |
| Computational Modelling | |  | | Risk Stratification/Modelling | | |  |
| Imaging | |  | | Behavioural Research | | |  |
| Liquid Biopsy | |  | | Health Economics/Systems | | |  |
| Machine Learning/Artificial Intelligence | |  | | Other |  | (please define) | |
|  | |  | |  | | | |

**5.10 Statistical Design and Analysis Plan**

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| --- |
| Please provide details of the statistical design and analysis plan you will use in your research, addressing the questions outlined in the ACED Project Award Guidance (Section 2.3 of the guidance, relevant heading in the provided table). |
|  |

**5.11 Cell Lines (only complete if applicable)**

|  |
| --- |
| Please provide details of any cell lines you will use in your research, addressing the questions outlined in the ACED Project Award Guidance (Section 2.3 of the guidance, relevant heading in the provided table). |
|  |

1. **Financial Details**

Please refer to the ACED Project Award Guidance for instructions on completing this section. Please add more rows to the respective tables as necessary. **Costs should be divided and reported separately for each UK and US Member Centre(s) in the local currency of the country in which they are incurred in (e.g. GBP (£) for UK and USD ($) for US).** For example, if a cost is associated with research conducted at US Member Centres, it should be reported as *Stanford or OHSU- USD ($) amount*. Costs associated with research at UK Member Centres, should be reported as *Manchester or Cambridge or UCL - GBP (£) amount.*

Please note that for applications involving the Stanford Canary Center, a full Center member must be included as part of the application, full list available here: <https://canarycenter.stanford.edu/people/full-members.html>. **Applicants are strongly encouraged to contact Bruce Schaar (**[**bschaar@stanford.edu**](mailto:bschaar@stanford.edu)**) Stanford Program Manager, as early as possible for any application involving Stanford**.

**6.1 Staff Details (where salary costs are requested)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Post number | Name of position and institution | Grade and scale point (UK only) | FTE (%) | Base salary (include any applicable location allowances) | Oncosts\* | Y1 Costs | Y2 Costs | Y3 Costs | Total Costs |
| 1 |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |
| Justification using reference to post numbers: | | | | | | |  |  |  |
|  | | | | | | |  |  |  |

\* In the UK, national insurance and pension contributions at the USS/NHS rates only. In the US, any applicable contributions other than base salary. Please note that bonuses are not eligible costs on this application. For OHSU, please be sure to include actual base salary and OPE rates for all associated staff (including Project Leads, if contribution >0.0 FTE).

**6.2 Running Expenses**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Description | Additional Information | Y1 Costs | Y2 Costs | Y3 Costs | Total Costs |
|  |  |  |  |  |  |

**6.3 Equipment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Description | Additional Information | Y1 Costs | Y2 Costs | Y3 Costs | Total Costs |
|  |  |  |  |  |  |

**6.4 Financial Summary (one row per ACED Member Centre)**

|  |  |  |  |
| --- | --- | --- | --- |
| Staff Costs Total | Running Expenses Total | Equipment Total | Total Costs |
| *UK Member Centre [insert relevant institution] total staff costs - £* | *UK Member Centre [insert relevant institution] total running expenses costs - £* | *UK Member Centre [insert relevant institution] total equipment costs - £* | *UK Member Centre [insert relevant institution] total costs - £* |
| *US Member Centre [insert relevant institution] total staff costs - $* | *US Member Centre [insert relevant institution] total running expenses costs - $* | *US Member Centre [insert relevant institution] total equipment costs - $* | *US Member Centre [insert relevant institution] total costs - $* |
| *Add more rows as necessary.* |  |  |  |

1. **ADDITIONAL DOCUMENTS**

Please include any Letters of Support, Ethical Approval confirmation and/or detailed PPI plans at the end of this application in PDF format.

1. **Declaration**

|  |  |
| --- | --- |
| I declare that the information provided in this application is true and is in accordance with the International Alliance for Cancer Early Detection Collaboration Agreement. Additionally, I confirm the following:  **No research misconduct or workplace misconduct on part of persons named on this application:** The host institutions and Lead Applicant(s) confirm that, to the best of their knowledge and except as has been notified to CRUK in writing:   * **No research misconduct investigations or findings:** there are no research misconduct allegations currently under investigation involving the Lead Applicant(s) or any other person named on the application, nor has any allegation of research misconduct been upheld in the previous five years; * **No bullying or harassment findings:** there have been no upheld findings of bullying, or harassment against the Lead Applicant(s) nor any other employee of the host institution who is named on the application. See further [CRUK’s Policy on Dignity at Work in Research](https://www.cancerresearchuk.org/funding-for-researchers/applying-for-funding/policies-that-affect-your-grant/policy-on-dignity-at-work-in-research). CRUK reserves the right to reject the application or ask that the relevant individual(s) be removed from it. | |
| **Lead Applicant #1 Name:** | **Lead Applicant #1 Signature:**  **Date:** |
| **Lead Applicant #2 Name:** | **Lead Applicant #2 Signature:**  **Date:** |
| **Member Centre Director Name:** | **Member Centre Director Signature:**  **Date:** |
| **Host Institution #1 Approver Name:** | **Host Institution #1 Approver Signature:**  **Date:** |
| **Host Institution #2 Approver Name:** | **Host Institution #2 Approver Signature:**  **Date:** |

**\*Note we will accept more than one copy of the signature page (e.g. each institute signing separately) as submitted for one application. Add more signature rows as necessary.**