|  |  |
| --- | --- |
| Research project title: |  |
| Applicant: | *Name and institution* |
| Co-Mentor: | *Name and institution*  |
| Co-Mentor: | *Name and institution* |
| Proposed start date:*As a guideline, to allow for completion of post award processes, projects are not anticipated to start until January 2023 onwards* |  |
| Duration of proposal (months):*If applying for the Award to be undertaken part-time in the UK, please indicate duration and full-time equivalent* |  |
| Total amount requested:  | *£ or $- Insert the total amount requested from the submitting ACED Member Centre here.* |

**IMPORTANT:**

* Please use Arial 10-point font for questions with page limits.
* Submit one application per proposal. Please submit through the Member Centre the Applicant is based at.
* Submit your completed application to your local ACED Programme Manager in Word format.
* Your application must address the strategic aims of ACED and clearly link to the early detection of primary cancer.

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

**Pathway Award Funding Application**

1. **Application Summary**
2. **Information on Applicant**

**Provide details of the Applicant for this award in the tables below; please add more rows if necessary.**

|  |  |
| --- | --- |
| Are you applying for your own support? |  |
| What is the source and end date of your current funding? |  |
| What is your primary profession? |  |
| Number of hours per week contributing to this research Award?  |  |
| Total number of hours per week spent on all research projects?  |  |

**2.1 Qualifications**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date (dd/mm/yy)** | **Qualification** | **Group Leader** | **Location** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Start date (mm/yy)** | **End date (mm/yy)** | **Job title** | **Group Leader** | **Location** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**2.3 Publications**

|  |
| --- |
| **3-5 Most relevant publications that support this application** |
|  |

1. **Skills and Experience**

**3.1 Key Research Experience of the Applicant**

|  |
| --- |
| 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 for cancer early detection and what its impact and influence have been in your field. (Maximum length 1 page) |
|  |

**3.2 Future research ambitions**

|  |
| --- |
| Please give brief details of your future early detection research ambitions and how this Award will support them. Please include details of: plans for the development of your own research (niche) or vision for your own independent research; what factors have influenced your choice of host institution; what you hope to achieve as a result of this award; plans to utilise ACED’s resources to develop your career. Please detail any specific funding schemes you plan to apply for following this Award and how this Award will support that application. (Maximum length 1 page).  |
|  |

**3.3 Training and development plan**

|  |
| --- |
| Please outline your plans to develop personal and scientific skills and knowledge to drive the development of your research, including how your chosen Co-Mentors will support your training. If relevant, please include details of how you plan to develop your multidisciplinary skills in your research and your training goals to achieve this. (Maximum length 0.5 page).  |
|  |
| Please outline how you have demonstrated effective communication and engagement skills in your research career. |
|  |

**3.4 Career Breaks and Part-Time Working (if relevant)**

|  |
| --- |
| Please give brief details of any notable interruptions (e.g. leave of absence, part-time working, change in discipline, etc.). Applicants will not be penalised with respect to advancement, outputs, or status. |
|  |

1. **Collaborative Team**

**4.1 Provide details of the collaborative team in addition to the Applicant and Co-Mentors for this award in the table below; please add more rows if necessary.**

**Please note that external collaborators are not eligible for ACED funding and cannot receive funds as part of this project. External collaborators have an obligation to share data with researchers across the ACED centres; if you are including external collaborators on your application, please discuss this in the first instance with your local ACED Programme Manager.**

**Please tick this box to confirm the Applicant has made all external collaborators aware that data generated on this Award may be shared with researchers across the ACED centres, and will require a Research Collaboration Agreement which external collaborators must be party to before the grant can be started:** [ ]

|  |  |  |
| --- | --- | --- |
| **Name** | **Affiliation** | **Role (e.g. how they will contribute towards the Applicant’s research network)** |
|  |  |  |
|  |  |  |

**4.2 Research network and collaborations**

|  |
| --- |
| Please provide brief details of your current research network and highlight how this network contributes to you achieving your own research goals. Please outline what collaborations (academic or commercial) you intend to develop during this Award period (independent from your current group leader/supervisor), how they will support your current and future research, and how they will help to develop your communication, engagement and multidisciplinary skills in early detection research. |
|  |

**4.3 Mentorship**

|  |
| --- |
| Please describe the reasons why you chose your Co-Mentors and how their expertise will support your Award. Detail how the Co-Mentors plan to provide mentorship through training and career development opportunities. |
|  |

**In Section 8, please provide Letters of Support from both Co-Mentors, clearly demonstrating their commitment to support the Applicant as described above. This must also include confirmation that the host Centre will provide sufficient space and access to resources to undertake the proposed research.**

1. **Research Proposal**

**5.1 Research and Lay Abstract**

|  |
| --- |
| Research Abstract Provide a scientific abstract for your proposal below. **Maximum 250 words.** **Please note this information may be shared publicly by CRUK.** |
|  |
| 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

**Maximum 250 words.****Please note this information may be shared publicly by CRUK and ACED Centres.** |
|  |

**5.2 Research Proposal**

|  |
| --- |
| Please consult the ACED Pathway Award Guidance for completing your research proposal, including required content (Section 2.4 of the Guidance, table within this section describes the content required). **This section should not exceed eight standard pages, including figures, but excluding references.**  |
|  |

**5.3 The importance to the 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.**  |
|  |

**5.4 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.**  |
|  |

**5.5 Data Sharing Plan**

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

1. **Additional Research Information**

**6.1 Animal Studies**

|  |  |
| --- | --- |
| Does the proposed research involve the use of animals? **If no, continue to 6.2.**  |  |
| Animal species used:  |  |
| Are any of these animals genetically modified?  |  |
| Status of license covering animal usage:  |  |
| 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. |

**6.2 Human Studies**

|  |  |
| --- | --- |
| Does the proposed work involve human tissue samples? **If no, continue to 6.3.**  |  |
| Does the work require approval from the appropriate research ethics service? |  |
| Research ethics application status: |  |

**6.3 Other Regulatory Approvals**

|  |  |
| --- | --- |
| Does the work require other regulatory approval?  |  |
| If yes, please describe the type, status and the license number: |
|  |

**6.4 Human Stem Cell Research**

|  |  |
| --- | --- |
| 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.earlydetectioncambridge.org.uk/aced/regulatory-advice>  |
| Does the work involve the use of any human stem cells? |  |
| If yes, please describe the human stem cell types below.  |
|  |

**6.5 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 proposedwork: |
|  |

**6.6 Cancer Type**

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

**6.7 Scientific Discipline**

|  |
| --- |
| Please define what you consider to be the Applicant’s and Co-Mentors’ 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)
 |
| Applicants | Discipline | Extra information if necessary |
| Applicant | Select from list |  |
| Co-Mentor | Select from list |  |
| Co-Mentor | Select from list |  |

**6.8 Research Classification**

|  |
| --- |
| Please select which type of research you consider is most closely associated with this Award(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 |[ ]   |

**6.9 Statistical Design and Analysis Plan**

|  |
| --- |
| Please provide details of the statistical design and analysis plan you will use in your research, addressing the questions outlined in the ACED Pathway Award Guidance (Section 2.5 of the guidance, relevant heading in the provided table).  |
|  |

**6.10 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 Pathway Award Guidance (Section 2.5 of the guidance, relevant heading in the provided table). |
|  |

**6.11 Animal Studies (only complete if applicable)**

|  |
| --- |
| Please provide details of any animal studies you will use in your research, addressing the questions outlined in the ACED Project Pathway Guidance (Section 2.5 of the guidance, relevant heading in the provided table). |
|  |

1. **Financial Details**

Please refer to the ACED Pathway Award Guidance for instructions on completing this section. Please add more rows or columns to the respective tables as necessary.

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

**7.1 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 | 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 Award holder, if contribution >0.0 FTE).

**7.2 Running Expenses**

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

**7.3 Equipment**

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Staff Costs Total  | Running Expenses Total  | Equipment Total  | Total Costs  |
| *UK/US Member Centre [insert relevant institution] total staff costs - £/$* | *UK/US Member Centre [insert relevant institution] total running expenses costs - £/$* | *UK/US Member Centre [insert relevant institution] total equipment costs - £/$* | *UK/US Member Centre [insert relevant institution] total costs - £/$* |

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. **You must provide Letters of Support from both Co-Mentors clearly demonstrating their commitment to support the Applicant.**

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 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 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.
 |
| **Applicant Name:****Date:** | **Applicant Signature:****Date:**  |
| **Co-Mentor Name:****Date:** | **Co-Mentor Signature:****Date:** |
| **Co-Mentor Name:****Date:** | **Co-Mentor Signature:****Date:** |
| **Member Centre Director Name:****Date:** | **Member Centre Director Signature:****Date:** |
| **Host Institution Approver Name:****Date:** | **Host Institution 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.**