| SUPERVISOR DETAILS | Supervisor 1 | Supervisor 2 | Supervisor 3 | Supervisor 4 |
| --- | --- | --- | --- | --- |
| Name |  |  |  |  |
| Position |  |  |  |  |
| Department/Building |  |  |  |  |
| Email |  |  |  |  |
| *Tick appropriate1* | Physical  Biological  Cancer | Physical  Biological  Cancer | Physical  Biological  Cancer | Physical  Biological  Cancer |
| I confirm that I will hold my (academic) position until the end of the studentship (Sep 2029) | | | | |
| *Tick to confirm* |  |  |  |  |
| We confirm that we can provide a potential student with appropriate **office**/**lab space** and necessary **equipment, including a workspace computer.**  NB: computers or computer equipment cannot be purchased via the ICB | | | | |
| *Tick to confirm* |  | | | |
| We agree to contribute throughout the duration of the 4-year PhD studentship to the training of our cohorts in PhD years as requested by the Convergence Science Centre and ICB Directors. This includes (but is not limited to): tutoring; mentoring. | | | | |
| *Tick to confirm* |  | | | |
| We have read, understood and agree to the conditions described in the Application Guidelines document, including the participation of supervisors in seminars and workshops and involvement with CSC and ICB activities. | | | | |
| *Tick to confirm* | |  | | | |
| We confirm that the project is cross-institutional (i.e. there is at least 1 supervisor from [Institute of Chemical Biology, Imperial College London](https://www.imperial.ac.uk/chemical-biology/cdt/about-us/supervisors/), and [1 from Institute of Cancer Research (ICR).](https://www.icr.ac.uk/our-research/researchers-and-groups) | | | | |
| *Tick to confirm* |  | | | |
| ***ICR applicant:***  *I confirm that I have completed the Research Degree Supervisor Form* | | | | | |
| *Tick to confirm* | |  | | | |
| ***ICR applicant:***  *I confirm that I have sought and received Head of Division approval to apply for a studentship* | | | | |
| *Tick to confirm* |  | | | |

##### 1 See guidelines for definitions, in short “Physical” refers to e.g. physical / engineering / mathematical sciences/ industry 4.0 expertise; “Biological” refers to e.g. medical / life / agri / personal care sector sciences; “cancer” refers to ICR scientists.

| INDUSTRY or NON-ICL/NON-ICR PARTNER | Parter Supervisor 1 | Partner Supervisor 2 | Partner Supervisor 3 | Partner Supervisor 4 |
| --- | --- | --- | --- | --- |
| Company/Institute name |  |  |  |  |
| Non-ICL/Non-ICR Supervisor name(s) and position(s) |  |  |  |  |
| Will the student be able to spend time at the partner’s labs? |  |  |  |  |
| *Tick appropriate1* | Physical  Biological  Cancer | Physical  Biological  Cancer | Physical  Biological  Cancer | Physical  Biological  Cancer |

| REVIEW | Suggested Reviewer 1 | Suggested Reviewer 2 |
| --- | --- | --- |
|  | | |
| Name |  |  |
| Email |  |  |
| Expertise |  |  |
| We don’t want this application to be reviewed by non-IC / non-ICR reviewers (e.g. Industry ICB Research Board members) | | |
| *Tick to confirm* |  | |
| *If ticked, explain why* |  | |

|  |  |
| --- | --- |
| PROJECT OVERVIEW | |
| Project Title |  |
| Project Abstract |  |
| Keywords |  |
| Advertisement | *Tick to confirm that the information above can be published online should this project be awarded and advertised*  *Tick to notify us that this project abstract will require modification and/or industry partner sign off before publishing* |

### ASSESSED COMPONENTS: PAGE LIMIT: 4 PAGES INCLUDING ALL FIGURES; 10pt ARIAL

|  |
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| SCIENCE – CANCER LED (Threshold 5.0/10.0) |
| Describe how the project meets an unmet need in cancer. In particular, please focus on how the project aligns with the CSC priorities: i) Convergence Discovery Research, aiming to identify cancer vulnerabilities through the integration of Discovery Research & clinical materials, and ii) Interventional Science, covering technological innovations in early detection and diagnosis, novel interventions, and therapy monitoring. Further details found [here](https://www.convergencesciencecentre.ac.uk/research/resesearch-themes). |

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| PHYSICAL SCIENCE INNOVATION (Threshold 5.0/10.0) |
| What is the **new** molecular tool or technology that will be developed or translated to address the biological problem described above? Please highlight the nature of the \*physical sciences **innovation** and how this differs from/builds upon existing technologies. Please describe the scientific merit of the project with respect to innovation and competitiveness on an international level. |
| *\*In this context, physical sciences innovation is defined as the development / translation of the next generation of molecular tools or technologies for “making, measuring or manipulating” molecular interactions in biological systems, using expertise from the physical sciences (e.g. chemistry, physics, mathematics, engineering). Modification of an existing technology to solve a specific biological problem is allowable, but there has to be considerable novelty in the development of the technology underpinned by innovation in the physical sciences.* |

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| MULTIDISCIPLINARITY (Threshold 4.0/6.0) |
| Describe roles and contributions of the supervisors and the relevance of this research to the physical sciences/biological sciences interface. Please ensure that you highlight the multidisciplinary / convergence science nature of the PhD research project. |

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| FEASIBILITY (Threshold 5.0/10.0) |
| Describe the suitability of the project for a PhD studentship. Comment on the overall achievability and the access to resources. |

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| RESPONSIBLE RESEARCH, INNOVATION AND SUSTAINABILITY (Threshold 3.0/5.0) |
| Explain how the project was designed with Responsible Research and Innovation (RRI) and sustainability in mind. e.g. Is the topic you are researching potentially controversial? Is there a significant ethical or moral component? How will you identify potentially controversial implications of your research that may arise during a project? Are there trust or social acceptability issues for your research? Please highlight considerations of a) responsible research, b) environmental responsibility, c) social responsibility, d) responsible strategic decisions.  For more information on RRI please go to: <https://www.ukri.org/councils/epsrc/guidance-for-applicants/what-to-include-in-your-proposal/health-technologies-impact-and-translation-toolkit/research-integrity-in-healthcare-technologies/responsible-research-and-innovation/> |

|  |
| --- |
| IMPACT (Threshold 2.5/4.0) |
| Describe the intended impact/ scientific merit that would arise from this work. This can include novel biological insight, a translational element (e.g. how the application of the new technology could be applied to other biological problems) and / or any other added value that the project can bring to the ICB CDT and CSC, such as outreach, new collaborations (e.g. with industry) and follow-on funding. |

|  |
| --- |
| LAB OF THE FUTURE (Threshold 3.0/5.0) |
| Describe how the project and student training therein is aligned with Lab of the Future platforms. This could include, but should not be restricted to aspects of automation, additive manufacturing / 3D printing, AI, machine learning, augmented reality, cloud computing, big data and analytics and the Internet of Things. |

ANNEX

Successful applicants will be expected to contribute throughout the duration of the 4-year PhD studentship to the training of our cohorts as requested by the ICB Directors and CSC. This includes (but is not limited to): marking of assessments; tutoring; mentoring.

In addition to this, we would request that you select at least three of the below activities to be responsible for if you are awarded a studentship:

1. Co-organise an ICB colloquium
2. Give a talk at an ICB colloquium or Summer School
3. Co-organise an ICB careers seminar
4. Supervise ICB cohort site visits to industry partners
5. Contribute to MRes taught training (e.g. lectures, group learning seminars)
6. Contribute to the ICB and CSC newsletter/ website
7. Attend and act as tutor at an ICB and CSC transferable skills courses
8. Take part in industry hackathons
9. Act as member of judging panels at events such as the ICB Tech Accelerator
10. Act as a member of an ICB expert panel to mark future proposals
11. Take part in ICB technology showcase events / SME workshops
12. Join the BOOST mentoring programme (giving advice to student pursuing independent research or starting up their own companies)
13. Act as a cohort mentor for 1 year (includes visiting students at residential courses)
14. Other Click or tap here to enter text.

***Page limit***

*Please complete your application by entering your text into each section of this form.*

*Please do not use a font less than 10 pt Arial and return in file format doc or docx to ICB Admin* [*icbadmin@imperial.ac.uk*](mailto:icbadmin@imperial.ac.uk) *and* [*icr-imperial-convergence.centre@imperial.ac.uk*](mailto:icr-imperial-convergence.centre@imperial.ac.uk)

*The ‘Assessed Components' section of this application should* ***not exceed 4 pages****. The form tables and annex* ***will not*** *be included in the page count.* ***Do not remove the annex****.*

***Deadline***

***Wednesday 16th October 2024, 5 pm.***