**Cohort 6 (2024 Intake) PhD Project Proposal Form**

**Project Dates: October 2025-September 2028**

**Please read the Guidance prior to completing this form. If possible, please submit your answers online using the form at** [**this link**](https://app.onlinesurveys.jisc.ac.uk/s/cardiff/csm-cdt-project-call-2024)**. If not, please rename this document, adding the Lead Supervisor’s surname as a PREFIX to the current title, and email to semiconductors-cdt@cardiff.ac.uk**

*\* This information will be provided to students in the project catalogue.*

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| **1. PROJECT TITLE\*** a concise preliminary title | | | | | | | | | |
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| **2. PROPOSED UNIVERSITY SUPERVISORS:** | | | | | | | | | |
| **Lead Supervisor\*** | | Is the Lead Supervisor an ECR? Yes/No | | | | | | | |
| **University\*** | |  | | **Email\*** | | |  | | |
| **Second CDT supervisor\*** | | Is the 2nd Supervisor an ECR? Yes/No | | | | | | | |
| **University\***  (must be different than Lead) | |  | | **Email\*** | | |  | | |
| **Supervisors' current PhD load:** | | | | | | | | | |
| Current number of PhDs being supervised as 1st (or joint 1st) supervisor and start/end dates | | Lead Supervisor | | | | | | Second CDT Supervisor | |
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| **3. PROPOSED PROJECT** | | | | | | | | | |
| **3.1 Description of the proposed project\*.** This is your ‘advertorial’for the project catalogue. Ensure that it describes an industrially relevant project and outlines the approaches that might be taken. (max. 200 words) | | | | | | | | | |
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| **3.2 Background of student\*** all our students undertake the MSc in Compound Semiconductors, either the Physics or Engineering route. If your project is only suitable for students of one route, please state this. | | | | | | | | | |
| MSc CS Physics Route students **Suitable/Not suitable**  MSc CS ENGIN Route students **Suitable/Not suitable**  If any specific background or specific module completion is required, please state here: | | | | | | | | | |
| **3.3 Scientific excellence\*:** highlight the significance, originality, impact and degree of challenge of the project, and the feasibility of its completion in 3 years (max. 100 words) | | | | | | | | | |
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| **3.4 Research training\*:** highlight key skills/techniques that the project will develop e.g. use of novel/innovative technologies/approaches; exposure to cross-disciplinary working (max. 100 words) | | | | | | | | | |
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| **3.5 Research Facilities:** provide details of facilities that will be used by the student **in addition** to those at the Home University or industrial partner (if any) | | | | | | | | | |
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| **4. ESTIMATED PROJECT COSTS for the three-year PhD project** | | | | | | | | | |
| **Consumables** | | |  | | | | | | |
| **Equipment Use/Access Charges** | | |  | | | | | | |
| **Project Specific Training** | | |  | | | | | | |
| **Conference Attendance & Travel** | | |  | | | | | | |
| **Total** | | |  | | | | | | |
| If the total exceeds £20,000, how will the excess costs be covered? | | |  | | | | | | |
| **5. INDUSTRIAL PARTNER \*** | | | | | | | | | |
| **Note ALL projects must have an industrial *partner*, but may be considered without industrial *funding* only if at the University of Sheffield (and received by the deadline).** Projects will be included in the catalogue *only* if confirmed by a letter or email of support from the Industrial Partner. | | | | | | | | | |
| Company Name\* |  | | | | | | | | |
| Company address (for CAP form) |  | | | | | | | | |
| Contact Name |  | | | | Email |  | | | |
| Industry Supervisor  *(if different than contact)* |  | | | | Email |  | | | |
| **Has the partner agreed to co-fund this project?**  **Yes**, please attach an email/letter that clearly states the commitment to a contribution of a minimum of **£45,300** split across three years.  **No,** please describe the status of the discussions. You have until 30 November to confirm partner support in writing. | | | | | | | | | |
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| Please describe the industrial involvement in the project (student placement, use of equipment, other): | | | | | | | | | |
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| Does the Industrial supervisor have any issue with accepting a student who is from outside of the UK? If so, please state restrictions: | | | | | | | | | |
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| Are there likely to be any Export Control Issues with this project? | | | | | | | | | |
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| **6. REFERENCE LIST\*:** Provide a starting point for the student. Normally, 3 or 4 are sufficient. | | | | | | | | | |
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| **7. MSc PROJECT\*:** state general topic and/or title of the three-month MSc project.Note that the project must be capable of being carried out in Cardiff if the student is unable to change location until the start of the PhD. | | | | | | | | | |
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| **8. IMPACTS:** Please highlight any issues or risks you foresee regarding the student’s ability to start and to perform the project within the funded period. | | | | | | | | | |
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| **9. STUDENT NUMBERS** | | | | | | | | | |
| Some topics may be broad enough that more than one student could undertake a project it. If so, how many students from Cohort 6 could undertake this project? | | | | | | | | |  |
| If you are submitting **more than one project proposal** for Cohort 6, please state the total number of students that can be supervised **by you** from this Cohort (noting your university’s regulations on the maximum number of students that can be supervised). | | | | | | | | |  |
| **10. CONFIRMATION** | | | | | | | | | |
| By submitting this proposal, I confirm that   * I will ensure that the EPSRC Terms and Conditions are met. * I and the co-supervisor(s) will participate in CDT CSM monitoring activities, supervisors’ meetings and cohort training and events, as requested. * I and the co-supervisor(s) will make best efforts to ensure that the student selected for this project participates in CDT CSM activities.   Please delete as appropriate:  I have completed my University’s training on ‘Equality, Diversity & Inclusion’ and ‘Avoiding Unconscious Bias’.  OR  I will complete the above training by the time of project interviews in February 2024.  Signed:  *If no electronic signature is available, then your typed name will be deemed a signature for the purposes of this confirmation.* | | | | | | | | | |

**Proposals must be submitted by 30 September 2024, online, or in WORD format,** to

[semiconductors-cdt@cardiff.ac.uk](mailto:semiconductors-cdt@cardiff.ac.uk).