**Cohort 7 (2025 Intake) PhD Project Proposal Form**

**Project Dates: October 2026-September 2029**

**Please read the Guidance prior to completing this form. 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, so make it clear, easily understandable and interesting. 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 (s)\*** | | | | | | | | | |
| **Note ALL projects must have an industrial *partner*, but may be considered without industrial *funding* on an exceptional basis.** Projects will be included in the catalogue *only* if confirmed by a letter or email of support from the Industrial Partner.Funded projects will take priority in allocation. | | | | | | | | | |
| Company Name(s)\* |  | | | | | | | | |
| Company address(es) (for CAP form) |  | | | | | | | | |
| Contact Name(s) |  | | | | Email |  | | | |
| Industry Supervisor(s)  *(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 **£47,699** 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 7 could undertake this project? | | | | | | | | |  |
| If you are submitting **more than one project proposal** for Cohort 7, 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 2026.  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 2025, in WORD format,** to

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