



CDT in Collaborative Computational Modelling at the Interface (CCMI) 2026/2027 Application

This is an application form for the Collaborative Computational Modelling at the Interface (CCMI) CDT, an EPSRC Centre for Doctoral Training (CDT) collaboration between University College London (UCL) and Imperial College London, offering a fully funded 4-year PhD programme, commencing September 2026. We offer a bespoke cohort training programme including dedicated block workshops, software weeks, summer schools, and more.

We will support 70-80 students, over five cohorts. We provide research opportunities across computational mathematics, scientific algorithms, high-performance computing, research software engineering, data sciences, and applications. We have external partners ranging from innovative SMEs to world-leading HPC labs.

For more information on our programme and answers to frequently asked questions, please visit our website <https://ccmi-cdt.org/>.

Please do not close or navigate away from this form while completing it, as your entries will be lost.

A full copy of the application questions are available on our website at <https://ccmi-cdt.org/>

We advise applicants to:

- Review all questions in advance
- Set aside time to complete the form in one sitting - approximately one hour
- Prepare longer answers in a separate document, then copy and paste them into the form (This helps avoid losing work due to internet issues or accidental navigation)
- This short form is designed for us to get to know you and your interests. Please do not worry about any typos or potential mistakes as we aim to review all applications in an open, inclusive manner.
- If invited to interview, you will be asked if you require any reasonable adjustments to successfully attend your interview.

Please note that there is a **strict character limit** on the experience and interest questions. Applicants will have an opportunity to **review and edit** their application before submitting, **using the back button at the bottom left of the form. Do not use your browser's back button, as this may cause data loss.**

Please complete all sections of the application form.

Final Submission Policy

Applicants are permitted to submit **only one application via the Microsoft Form**. This submission should be treated as final. Please take the time to ensure your application is complete and accurate before submitting. Once you have submitted this form, in order for your application to be considered complete, we require you to **email your educational transcripts to arc.ccmi-cdt@ucl.ac.uk**. Please write **TRANSCRIPT** in the subject line and send your transcript as a PDF. If you have more than one transcript, please merge and send as one PDF file. We will only review one PDF transcript file per applicant.

Contact Details

Please ensure your name and email are entered correctly as these will not be automatically captured when you submit your form. We will communicate with you via email if you are shortlisted, so please ensure your email is entered correctly in question 3.

1. First Name *

2. Last Name *

3. Email Address *

Please enter an email

4. Contact Telephone Number (inc. country code) *

5. How did you hear about the CCMI CDT? *

- ☐ CCMI website
- ☐ [FindaPhd.com](https://findaphd.com)
- ☐ LinkedIn
- ☐ CDT open day
- ☐ Word of Mouth
- ☐ Martingale Foundation
- ☐ Other

Equal Opportunities Monitoring

The following section is made up of questions to allow us to carry out equal opportunities monitoring. Information from this section will not be visible to the recruitment panel. It will be used by Centre Managers for administrative purposes, to ensure equal opportunity, and for anonymised monitoring and reporting purposes required by our funder (UKRI/EP SRC).

University College London has a commitment to ensuring that students are selected on the basis of merit, regardless of ethnic origin, sex, gender or disability, sexual orientation, race, colour, nationality (within current legislation), marital status, caring or parental responsibilities, age, or beliefs on matters such as religion and politics.

This information will be held securely and kept under GDPR guidelines. Access to the data will be restricted to administrative staff who will anonymise the data. Only anonymised data will be used for reporting purposes.

The CDT processes your personal data in order to provide its services to you. The UCL Prospective Students (Enquirers and Applicants) Privacy Notices, explain how we process your personal data and the rights you have with respect to your personal information: <https://www.ucl.ac.uk/legal-services/privacy/ucl-prospective-students-enquirers-and-applicants-privacy-notice>.

By providing this data, you agree that we will use the data as outlined above. All questions have a 'Prefer not to say' option.

6. Age *

- ☐ 0-24
- ☐ 25-29
- ☐ 30-34
- ☐ 35-39
- ☐ 40-44
- ☐ 45-49
- ☐ 50-54
- ☐ 55-59
- ☐ 60-64
- ☐ 65+
- ☐ Prefer not to say

7. What is your gender identity? *

- ☐ Woman
- ☐ Man
- ☐ Non-binary
- ☐ Prefer to self describe - please describe in next section
- ☐ Prefer not to say

8. If you ticked 'Prefer to self describe', please describe your gender identity below

9. Do you identify as trans? *

- ☐ Yes
- ☐ No
- ☐ Prefer not to say

10. Do you have an impairment, health condition, or learning difference that has a substantial impact on your ability to carry out day-to-day activities and has lasted, or is expected to last, at least 12 months? (Tick all that apply) *

- ☐ Learning difference such as dyslexia, dyspraxia or AD(H)D
- ☐ Social/communication conditions such as a speech and language impairment or an autistic spectrum condition
- ☐ Long-term illness or health condition such as cancer, HIV, diabetes, chronic heart disease, or epilepsy
- ☐ Mental health condition, challenge or disorder, such as depression, schizophrenia or anxiety
- ☐ Physical impairment (a condition that substantially limits one or more basic physical activities such as walking, climbing stairs, lifting or carrying)
- ☐ Deaf or have a hearing impairment
- ☐ Blind or have a visual impairment uncorrected by glasses
- ☐ Development condition that you have had since childhood which affects motor, cognitive, social and emotional skills, and speech and language
- ☐ An impairment, health condition or learning difference not listed above
- ☐ No known impairment, health condition or learning difference
- ☐ Prefer not to say

11. What is your ethnic group? *

- ☐ Asian - Bangladeshi or Bangladeshi British
- ☐ Asian - Chinese or Chinese British
- ☐ Asian - Filipino
- ☐ Asian - Indian or Indian British
- ☐ Asian - Pakistani or Pakistani British
- ☐ Any other Asian background
- ☐ Arab
- ☐ Black - African or African British
- ☐ Black - Caribbean or Caribbean British
- ☐ Any other Black background
- ☐ Mixed or multiple ethnic groups - White or White British and Asian or Asian British
- ☐ Mixed or multiple ethnic groups - White or White British and Black African or Black African British
- ☐ Mixed or multiple ethnic groups - White or White British and Black Caribbean or Black Caribbean British
- ☐ Any other Mixed or Multiple ethnic background
- ☐ White - English, Scottish, Welsh, Northern Irish or British
- ☐ White - Gypsy or Irish Traveller
- ☐ White - Gypsy or Traveller
- ☐ White - Irish
- ☐ White - Polish
- ☐ White - Roma
- ☐ White - Showman / Showwoman
- ☐ Any other White background
- ☐ Any other ethnic background
- ☐ Not Known
- ☐ Prefer not to say

12. What is your religion? *

- ☐ No religion (including atheist)
- ☐ Buddhist
- ☐ Christian
- ☐ Hindu
- ☐ Jewish
- ☐ Muslim
- ☐ Pagan
- ☐ Sikh
- ☐ Any other religion or belief
- ☐ Prefer not to say

13. Did your parent/s or carer/s attend university? *

- ☐ Yes
- ☐ No
- ☐ Don't know
- ☐ Prefer not to say

14. What type of school(s) did you mainly attend between the ages of 11 and 18 years old? *

- ☐ State-run or state-funded school in the UK, which was selective on academic, faith, or other grounds
- ☐ State-run or state-funded school in the UK, which was non-selective
- ☐ Independent or fee-paying school in the UK
- ☐ School outside of the UK
- ☐ I don't know
- ☐ Prefer not to say

15. Do you have any caring responsibilities? (Tick all that apply) *

- ☐ None
- ☐ Primary carer of a child or children (under 18 years)
- ☐ Primary carer of a disabled child or children
- ☐ Primary carer or assistant for a disabled adult (18 years and over)
- ☐ Primary carer or assistant for an older person or people (65 years and over)
- ☐ Secondary carer (another person carries out main caring role)
- ☐ Prefer not to say

Funding Eligibility Criteria

For guidance on home or international status, please visit www.ukri.org/what-we-do/developing-people-and-skills/esrc/funding-for-postgraduate-training-and-development/eligibility-for-studentship-funding/ The decision about fee status will be taken by the host University at the document checking stage, before a formal offer is made.

16. What is your nationality (what is on your passport/ID card)? *

17. What is your normal country of residence? *

18. With respect to fee status, are you applying as a home or international student? *

- ☐ Home Student
- ☐ International Student
- ☐ Not sure

19. Please indicate whether you are applying as a full-time or part-time student? *

- ☐ Full-time
- ☐ Part-time

Education

Please use this section to tell us about your educational history. Please indicate whether your highest qualification has been awarded or if it is in progress (i.e. you are in your final year and will be finished before the September 2026 start date for the CCMI CDT) and your awarded or expected grade.

20. Highest Qualification *

- ☐ BA
- ☐ BEng
- ☐ BEng (Hons)
- ☐ BSc (Econ)
- ☐ BSc (Hons)
- ☐ BSci
- ☐ BASc
- ☐ HNC
- ☐ HND
- ☐ LLB
- ☐ LLM
- ☐ MA
- ☐ MBA
- ☐ MD
- ☐ Med
- ☐ MEng
- ☐ MFA
- ☐ MPharm
- ☐ MPhil
- ☐ MRes
- ☐ MSc
- ☐ MSci
- ☐ MSc (Hons)
- ☐ MTech
- ☐ PGCert
- ☐ PGDip
- ☐ PhD
- ☐ Other

21. Highest Qualification Title (ie Computer Science, Maths, Law, Biology) *

22. Has your highest qualification been awarded or is it in progress? *

- ☐ Awarded
- ☐ In Progress

23. Highest qualification degree classification (or expected classification if still in progress). If awarded or studying outside the UK, please choose other and specify, including the maximum possible grade, as well as the grade awarded, ie 3.5/4 *

- ☐ 1st
- ☐ 2:1
- ☐ 2:2
- ☐ 3rd
- ☐ Distinction (MSc or similar)
- ☐ Merit (MSc or similar)
- ☐ Pass (MSc or similar)
- ☐ Pass (PhD or similar)
- ☐ Expected 1st
- ☐ Expected 2:1
- ☐ Expected 2:2
- ☐ Expected 3rd
- ☐ Expected Distinction (MSc or similar)
- ☐ Expected Merit (MSc or similar)
- ☐ Expected Pass (MSc or similar)
- ☐ Expected Pass (PhD or similar)
- ☐ Other

24. Highest qualification awarding institution

25. Do you have another relevant qualification? *

☐ Yes

☐ No

26. If yes, please give qualification title, awarding institution and grade

Experience and Interests

Please note that there is a **strict character limit** on the experience and interest questions, so your answers in this section should be brief and to the point.

We are committed to equality, diversity and inclusion. To minimise any unconscious bias, questions 27-34 are re-viewed in an anonymised manner. In this section of the form, please do not include any information that could reveal your identity, such as gender, name of universities you previously attended or specific names of supervisors, places etc.

For your information, as a CCMI PhD researcher, you will:

- work with your cohort colleagues through our training events to collectively gain skills in the multidisciplinary world of computational modelling
- share your expertise and interests with your cohort colleagues and benefit from theirs
- gain experience in how diverse teams can approach computational modelling research
- from whatever your starting level is, aspire to excellence in software development in all of your work, supported by our training and your cohort colleagues
- work with your project supervisor to develop the specific skills and knowledge underpinning your thesis project
- with your project supervisor and other collaborators, and building on those skills and knowledge, develop research contributions that will lead to a PhD thesis

27. Tell us about your academic and professional background (max 750 characters, incl spaces)

For example, I have a BSc in **x** and an MSc in **y**. I did the following courses that are relevant...
I did a research project in **z**. I worked in Industry as **w** for **n** months/years etc *

Please enter at most 750 characters

28. Select which of these aspirations best describe the type of skills that you would like to acquire during your training and how you would like to use them. We recognise that you might align with more than one option, but please select the option you most closely identify with. This will broadly specify the type of PhD project you could be interested in. *

- ☐ A. I want to develop and use computational models to better understand phenomena in the world around us.
- ☐ B. I want to understand and extend the mathematical foundations underpinning computational models (accuracy, stability, tractability, etc)
- ☐ C. I want to develop tools for blending computational models and data, to make inferences and predictions.
- ☐ D. I want to design, analyse and implement new algorithms enabling computational models to run efficiently and scalably on modern hardware.
- ☐ E. I want to work on principled and efficient solution of complex real world problems.

29. What aspects of your experience motivate you and will support you in being successful in the aspiration you selected in the question above? (max 750 characters, incl spaces)

For example: when I did course **x**, I realised how much I like working on **y**; Or, the project I did in **z** has given me a solid background in **w** that is relevant because...; Or, when I was working as **h**, I realised that I want a future in **q**. *

Please enter at most 750 characters

30. What aspect of the CCMI PhD experience are you most looking forward to, and why? (max 750 characters, incl spaces) *

Please enter at most 750 characters

31. What 3 things, in your career thus far, are you most proud of, and why? (max 1000 characters, incl spaces)

For example; I was very proud of obtaining a high mark on course **x**; winning award **y**; being involved in project **z**, publishing research paper on **h**; being successful in job **w** achieving **t**; Producing software **z**; Overcoming challenge **q**; Solving problem **n** etc. *

Please enter at most 1000 characters

32. What interests/excites/intrigues you most about creating software in a research context? (max 750 characters, incl spaces) - please also highlight any prior experience or learning that has contributed to this interest. *

Please enter at most 750 characters

33. What's your favourite scientific nugget (theory, algorithm, etc), and why? If you are invited to the interview stage. please be prepared to discuss this. (max 750 characters, incl spaces)

For example, theory **x**; the trick that is used in solving problem **y**; the fast algorithm that was developed by **z** to tackle problem **n**. Please do not name a broad area of Math or Science, such as Topology, Quantum Mechanics or Machine learning - be more specific please. *

Please enter at most 750 characters

34. Is there anything else you would like to add for us to consider whilst reviewing your application? For example, career breaks or challenges that affected your professional development? This section is optional. (max 750 characters, incl spaces)

Please enter at most 750 characters

Educational Transcripts

Once you have submitted this form, in order for your application to be considered complete, we require you to email your educational transcripts to arc.ccmi-cdt@ucl.ac.uk. Please write TRANSCRIPT in the subject line and send your transcript as a PDF. If you have more than one transcript, please merge and send as one PDF file. We will only review one PDF transcript file per applicant. PLEASE REMEMBER TO PRESS THE SUBMIT BUTTON ON THIS FORM

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