The Cambridge Mathematics Placements (CMP) programme provides opportunities for students studying for undergraduate or Master's degrees in Mathematics to find summer research placements in industry, the public sector, and other University departments. Students develop transferable skills and gain experience doing innovative mathematical research in an external setting, while hosts engage a talented mathematician to tackle research questions they face.

Despite the challenges of the global health crisis in 2020, the programme facilitated 11 academic and 13 industry placements. Our hosts report many successes: new projects were kickstarted, numerous publications are in the works, and new software was developed. With lessons learned and time to prepare, we expect that the summer 2021 program will be an even better experience for hosts and students alike.

Organisations looking to engage a student with a background in mathematics can submit their projects to CMP. We will advertise the projects on our website and through our online seminar series in February. Although we cannot promise a suitable student, we will do our best to help you find one. Projects are generally open to undergraduate and Master's students, and the project host can specify precisely what background and skills they require.

2021 Programme Dates

Late November to 22 January 2021: Project proposals accepted and listed on the CMP website.

February 2021: CMP seminar series takes place online. Hosts can give live or pre-recorded talks, followed by informal discussions with the students.

26 February 2021: Recommended deadline for students to express interest in projects.

26 February to 12 March 2021: Recommended period for organisations to review applications, interview, and make offers to students.

12 March 2021: For reasons of fairness, we ask that no student be required to respond to an offer before this date. Companies may continue to liaise with and make offers to students beyond this date.

June to September 2021: CMP projects take place, with exact dates agreed between student and host.

August 2021: CMP Presentation Day and Dinner (TBC).

September 2020: Reports and project feedback due.

Benefits for Hosts

Direct engagement with Cambridge Mathematics Master's and undergraduate students

- Pitch projects at the CMP seminar series and select students for summer placements. Hosts can propose both well-developed and speculative projects.

Involvement with a growing knowledge exchange community

- Interact with a maths-focused research community comprising the Mathematics Faculty, other departments, public sector organisations and industrial partners.
- Develop relationships that may lead to collaborations.
- Attend CMP Presentation Day to hear other host/student placement experiences and approaches. Participate in the CMP Annual General Meeting to review the programme and suggest improvements.

Progression of research objectives

- Projects tackle research challenges in a diverse range of areas, and provide new approaches to solving problems.
- Placements bridge gaps in mathematical expertise.

The CMP Supporters Club

We welcome all of our host partners to join the Cambridge Mathematics Placements Supporters Club. While there is no charge for submitting a project or participating in CMP, we ask partners and hosts — especially those who have had a successful project experience in the past — to join us in creating a sustainable funding model for the programme.

Joining the Club is easy and subscription levels are flexible, to accommodate hosts with varying resources. Supporters can choose what they would like donate, with suggested annual donations of £4,000 for large companies, £2,000 for SMEs and £500-£1,000 for start-ups, small companies and non-industry partners.

In return we offer the following additional opportunities:

- Priority booking for the CMP seminar series.
- Organisation details and logos on the CMP website.
- Participate in industry talks/events held in the Faculty.
- Communicate job openings to students.
- Support specific resources or projects if desired.
What our hosts are saying...

“It’s my third year as a host and I’ve been delighted on every occasion. Not only were the students highly skilled, their behaviour, commitment and communication skills showed great maturity and professionalism. Our student this year was able to quickly solve technical problems we had not anticipated, and produced results of excellent quality within a short time frame.”

- Olivier Restif, Department of Veterinary Medicine

“For the second year running we had a fantastic project. [The student] was able to complete a project that will be implemented into our business practices and have lasting impact on us. Additionally, there was time to explore different potential data analysis methods that would profoundly affect how decisions are made at GSK.”

- Will Stebbeds, GSK

“[The student] made excellent contributions that we expect to result in a journal paper in arguably the leading journal of the field as well as a conference paper over the next 6 months.”

- Cyrus Mostajeran, Department of Engineering

“Our student has been able to quickly and independently research and identify a working alternative and seemingly much improved approach to an algorithm that forms a significant part of the final deliverable of a high profile R&D project for an external customer.”

- Sam Pollock, Iconal Technology

100% of hosts providing feedback on CMP projects in 2020 say that their student made an extremely or very valuable contribution.

More than 90% of students had a rewarding experience and felt their background as a mathematician enabled them to see problems in a different and creative way.

100% of both hosts and students would recommend the programme to others.

Become a CMP Host

Think your company has a good project for a Cambridge Maths student?

To sign up to receive our 2021 call for projects, or talk about ways to get involved, e-mail: CMP@maths.cam.ac.uk

To propose a project for 2021, visit: https://www.maths.cam.ac.uk/project-proposal-form

To learn more about the programme and view past project proposals, visit: http://www.maths.cam.ac.uk/opportunities/careers-for-mathematicians/summer-research-mathematics

Industrial placement organisations have full financial responsibility for their projects. The interview process, stipend/salary, and the terms and conditions of employment are to be agreed directly between the company and the student.