Trinity College Dublin
Computing Internships

School of Computer Science & Statistics (SCSS)

Faculty of Engineering, Mathematics and Science

About Computing Internships

At Trinity College, Ireland's foremost university, internships are an integral part of our five year Computer Science and Computer Engineering Masters programmes. The idea is to develop a student's understanding of how design and theoretical aspects of computer science and computer engineering are applied in a commercial or research workplace. The internship is in the second half of fourth year and lasts for five to seven months. We look for hosts at the forefront of industry who can offer guidance and leadership to our students in the workplace.

Programmes incorporating a Computing Internship

- Computer Science (BACS/MCS)
  - Computer Engineering (BAI/MAI)
- Electronic and Computer Engineering (BAI/MAI)

> " *MasterCard Dublin has had tremendous success working with Trinity's school of Computer Science as part of our annual intern program. Trinity's students have worked on multiple leading edge products such as Qkr!, ShopThis! and Simplify Commerce with many interns returning to MasterCard as full time employees following the completion of their coursework.*
>
> MasterCard

Features and Benefits

- Access to skilled students who have completed 3.5 years of computer studies.
  - Internships of up to seven months – longer than summer placements.
- A platform for raising your profile among a sought-after pool of potential future employees.
  - The chance to connect with active researchers in Computer Science.
- An opportunity to cultivate in-house managerial and supervisory skills by mentoring interns.

Learning Outcomes

In a successful internship, students should be able to:

1. Contribute to the design and development of systems at the forefront of computer science research and critically evaluate their performance.
2. Apply theoretical knowledge in an industrial or research laboratory setting to solve real-world problems.
3. Practice and further develop skills in communication, management and teamwork.
4. Practice and further develop skills in time management and reporting skills within an industrial or research laboratory setting.
5. Contribute to an ethical and professional work culture.

Interns are assigned an academic supervisor who liaises with the host and monitors and assesses the internship. Host companies also assign a mentor or supervisor to each intern.

Time Frame

Aug/Sept — Companies prepare job specifications

October — Students start applying for positions

Oct/Nov — Companies give short talks to students

Interviews take place

December — Positions are finalised

Mid-Jan – Mid-Aug — Students take up their placements

The Host Organisation's Role

1. Plan and schedule the overall internship to ensure that it provides maximum opportunity for students to achieve their learning outcomes.

2. Pay students an appropriate stipend for the period of the internship. The level of the stipend is at the discretion of the organisation – guideline figures are available on request.

3. Provide students with real practical experience of system level design.

4. Provide students with an opportunity to demonstrate ability to solve a challenging technical problem.

5. Mentor and guide students on a continuous basis during the internship.

6. Provide feedback on the intern's performance, presentations and reports (or equivalent).

7. Help coordinate visits by our staff, which is generally comprised of an initial meeting and two subsequent visits.

Assessment of the Internship

Academically, the internship is weighted as a large portion of a student's grade for the year. Assessment is based on the following:

- An initial goals document.
  - A reflective diary to be maintained throughout.
- A Technical Report to be submitted in August.
  - A presentation to be made to the host mentor and academic supervisor towards the end of the internship.
- A poster describing the internship to be presented at a poster event in April.

(We are aware that host companies may have confidentiality requirements; we are happy to work with you to maintain confidentiality.)

> 66 BearingPoint is proud of the close working relationship we enjoy with the School of Computer Science and Statistics in TCD. The calibre of interns we engaged from TCD over the years has proven to be consistently high and we endeavour to always provide each student with the most valuable learning experience possible. Ultimately our aim is to hire these students after their internship, once they have completed their studies and attained their final qualifications. We look forward to building on the success enjoyed to date and continuing this relationship for many years to come.
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> Bearing Point

> 66 We are proud to have worked closely with the School of Computer Science and Statistics at Trinity. We have recruited a number of their talented students as interns over the years and hope for this fantastic relationship to continue.
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> First Derivatives

> 66 In the two years we have done an internship with students from TCD we have found the process to be highly beneficial as they have worked on a number of projects. The quality of the students that have been placed with us has been outstanding and we have found them very capable, enthusiastic and engaging. We're saving money and getting projects completed that wouldn't have been done without them or that would have cost us a lot of money to get done by external consultants. We look forward to continuing with the internship programme over the coming years.
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> Revenue

Next Steps

If you're interested in becoming a host, we'd be delighted to talk to you.

For more information, please contact the Internship Coordinator, **Emma Lindsay**.

Email: **internships@scss.tcd.ie**
Ph: **+353 1 896 1782**.