CEED*WA*

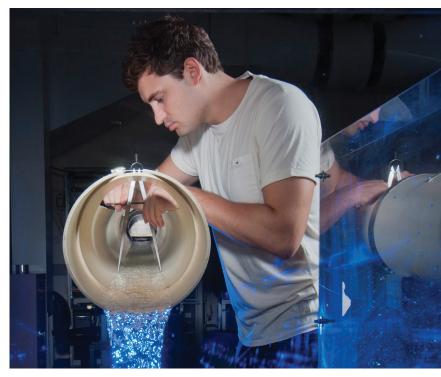## Industry Sponsored Research Projects

Information Pack 2024-2025

CEED scholar Matthew Avent studying the transport of sand in stratified pipeline flows

Cooperative Education for Enterprise Development (CEED) is a formal program linking the abilities and training of undergraduate, postgraduate and Higher Degree by Research (HDR) students with the research expertise of leading Universities and the research and development needs of progressive organisations in the wider community.

What are CEED Projects?

CEED projects are student research projects undertaken for academic credit. Honours, Masters by Coursework and Engineering Final year Projects are most common, but HDR (PhD) placement projects are now available.

The project topics are defined by the client enterprise – meaning that CEED projects address real issues in the client's operations, delivering outcomes that enhance performance.

In "Full" CEED projects, the CEED Scholar spends 8 weeks on site with the client during the summer vacation, immersing themselves in the operations and culture of the client while working on their research project.

Each CEED Scholar has an academic supervisor and a mentor from the client, ensuring that the Scholar remains connected to the client throughout the project, and engaging academic staff from our leading universities with the client and project.

Client Benefits

- Cost effective research projects (eligible for R&D tax incentives) on issues specific to your business
- Engagement of leading university experts with your staff and issues
- Extended engagement with potential graduate recruits (including the potential to maintain relationships with vacation employees)
- Specialist training of potential graduate recruits in technology, policy areas, issues and operations unique to your business
- The opportunity to use the client mentor role in development programs for early career staff
- CEED will assist the client in managing IP and confidentiality issues associated with engaging in student research projects
- Access to university research facilities

Disciplines and Timing

CEED projects may currently be undertaken in any discipline at UWA and Curtin that offers a suitable research project unit.

There are two CEED intakes each year: The main intake in October-November, with a mid-year intake predominantly for engineering and computing disciplines in April-June.

Past Projects

Each year, CEED Scholars present their work publicly at the CEED seminar. The seminar proceedings illustrate the nature and range of the projects undertaken by our Scholars and clients. Past CEED seminar proceedings are available at: www.ceed.wa.edu.au/about/seminar-proceedings/

CEED Project Models

Engineering Final Year Project : "Full" Project

Engineering students complete a two-semester final year research project. CEED Scholars engaged in Full CEED Projects spend eight weeks on-site with the client during vacation periods, complementing their work on the project during the academic year.

- Standard Project Fee $18,000
- Studentship*: $10,000
  (*The studentship is paid from the project fee)

Engineering Final Year Project : "Three-Quarter" Project

CEED Scholars undertaking "Three-Quarter" Projects do not spend time on-site with the client during the vacation periods, only working on the project during the academic year. This model is often used by clients to maintain engagement with students who have completed vacation employment.

- Standard Project Fee: $13,500
- Studentship*: $7,500

Honours Project : Full Project

Many disciplines offer a two semester Honours research project. CEED Scholars engaged in Full Honours Projects spend 8 weeks on-site with the company during the vacation periods, complementing their work on the project during the academic year. A three-quarter project model is also available for Honours students.

- Standard Project Fee: $18,000
- Studentship*: $10,000

Masters by Coursework Project:

Coursework Masters degrees in many disciplines offer one and two-semester research project units. CEED Scholars in Full projects spend 8 weeks on-site during vacation periods, complementing their work on the project during the academic year. A three-quarter project model is also available.

- Standard (full) Project Fee: $18,000
- Studentship*: $10,000

Higher Degree by Research (PhD and Masters) Placement Projects

HDR students may be engaged to work on 3-6 month CEED projects. HDR CEED Scholars may work full time or part time (the project timeframe varying from 3-6 months). Given the specialist nature of HDR candidate expertise, potential clients are encouraged to contact the CEED office to explore the availability of students with the required skill set before committing.

- Standard Project Fee: $20,000
- Studentship*: $12,000.

Employee CEED Projects:

Students who are salaried employees of the client during the academic semester may be eligible for the CEED Employee Project Model - enabling clients to manage IP and confidentiality. There is no studentship, and the standard project fee is $3,200 - $4,200.

Pro Bono CEED Projects:

Pro bono CEED projects may be undertaken with registered charitable organisations. Contact the CEED Director to discuss this option.

Participating Universities:

CEED projects are currently offered at The University of Western Australia and Curtin University. Clients interested in undertaking CEED projects with either University should initiate discussions with the CEED Director.

Project Process – Initiation to Deliverables

Standard "Full" Project

Initiation

Contact the CEED Director (Assoc. Prof Jeremy Leggoe, mobile 0434 610 294) for initial discussions. We will work with you to identify academic supervisors with expertise in the areas of interest, and the appropriate discipline and project model for the students. For clients seeking to integrate CEED projects into their recruitment and professional development strategies, regular coordination meetings can be scheduled to optimise processes.

Project Proposal and Agreement

Once a project scope, mentor and supervisor have been identified, the student recruitment process is initiated by the completion of a project proposal form .

Projects are typically executed under the CEED Standard Project Agreement, though specialised contracts can be negotiated if necessary. Proposal forms and the SPA are available at: www.ceed.wa.edu.au/industry-community-partners/project-materials-for-partners/

Student Recruitment

Projects are advertised to students via:
- www.ceed.wa.edu.au
- Direct email to specific discipline groups

Once applications have closed, the academic supervisor will review the applicants, and the academic supervisor and client mentor will interview the shortlisted applicants together. Appointment will be based on the rankings provided from the interviews.

Appointment and Induction

Students accepting CEED projects will sign a Student Undertaking (which forms part of the Standard Project Agreement). All CEED Scholars pass through a CEED Induction program, which briefs them on our expectations, the expectations associated with working in a professional environment, and the skills needed to manage a research project.

Site Work

In Full CEED projects, the CEED Scholar will complete eight weeks work on site with the client as part of their CEED commitments. The site work is usually completed during the summer vacation, though the exact timing can be flexible to fit the needs of the project, the client and the Scholar. Site work can be completed on campus if it best suits the needs of the project or the situation of the client.

Project Brief

After some time to familiarise themselves with the issues (ideally 8 weeks), Scholars prepare a Project Brief, in which they set out the deliverables for the project, along with the methodology and resources needed for the project. The Project Brief is signed off by the client, Scholar, academic supervisor and CEED office, ensuring all parties are agreed on the direction of the project.

Academic Semester

CEED Scholars return to campus for the academic semester. During the semester they will continue to work on the project, and maintain regular meetings with the client and the academic supervisor. In successful projects, a fortnightly to monthly meeting frequency is typical, and scholars often continue to work at the client's premises during the semester. CEED Scholars will also submit monthly reports throughout the project, updating the client and the CEED office on the progress of the project.

CEED Seminar

CEED Scholars provide a public presentation of their work to date at the CEED seminar, usually conducted mid-late September. The audience at the seminar includes a broad range of interested industry and university staff, along with alumni of the CEED program. All CEED seminar papers and presentations must be approved by the client prior to publication.

Completion and Deliverables

Academic requirements for most CEED Scholars will be completed at the end of the second semester of their project. CEED Scholars are expected to provide the deliverables to their client within 4 weeks of the completion of their academic requirements – and payment of the final installment of their studentship is conditional on client acceptance of the deliverables.

Project Administration

Project Timelines
The majority of CEED Scholars will start the academic portion of their project in the first semester of the year. HDR CEED Scholar placements may begin at any time in the year.

The ideal timeline for this main student intake is:

Timing	Action
Aug/Oct	Project propsals submitted and project advertised
Oct/Nov	Applicants interviewed and appointments completed
Late Nov	CEED Induction
Summer	Site work completed
Following Mar/Oct	Project continues on campus

Following Nov	Deliverables provided and accepted

In engineering and computing disciplines, many students start their projects in second semester. Timelines for all intakes and project models are available at www.ceed.wa.edu.au/industry-community-partners/project-timelines/

Intellectual Property
For 'standard' CEED projects, ownership of any IP generated during the project is shared 50/50 between the host university and the client, with the client granted license to use any IP generated for their own internal use.

Procedures for commercialising IP are set out in the CEED Standard Project Agreement. Each party retains exclusive ownership of any background technology contributed to the project, along with any modifications or additions to that background technology resulting from the project.

Clients have the option of securing 100% ownership of any IP generated during the project. This is accomplished by nomination in the Project Proposal, and incurs a cost of 35% of the standard project fee. This increase reflects an increase to the studentship provided to the CEED Scholar, supervisor honorarium, and overheads.

Confidentiality
Procedures are in place to manage the confidentiality of the information used in the project and the results generated by the project. It is encouraged that Scholars and clients identify potential confidentiality issues during the preparation of the Project Brief. No papers, presentations or theses arising from CEED projects will be publically released without the prior written authorisation of the client.

Billing
For all (funded) projects, clients are billed for half the project fee upon appointment of the CEED Scholar, and for the remainder upon acceptance of the deliverables. Subject to prior agreement, billing timelines can be adjusted if necessary to meet the needs of the client.

Project Costs
The project fee entirely covers the cost of the studentship, and the access to university facilities that is ordinarily provided to all students enrolled in the project unit. Additional expenses, such as the costs of consumables, specialist facility fees, experimental rig construction, and site travel, are covered by the client, and will be billed at the completion of the project. Such expenses will only be incurred with the prior written consent of the client, and would normally be estimated during the preparation of the Project Brief.

CEED Program Office
2024 - 2025

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