

## INDUSTRY-BASED PROJECTS



THE UNIVERSITY OF  
**WESTERN  
AUSTRALIA**

### UWA Bachelor of Science

A key focus of the Bachelor of Science is understanding, reasoning and improving the natural world through systematic observation, experimentation, modelling and calculation.

Discipline areas range from cutting-edge pure and applied science to new multidisciplinary fields of science. The Bachelor of Science gives students the opportunity to harness the skills and knowledge necessary to make a real contribution to the global challenges facing humanity.

### Relevant Major: Data Science

The degree has a number of majors that students choose in the first year of the degree, however the major most relevant to projects in a company's data science team is:

- **Data Science:** This major focuses on data and scientific computation. In our data-driven world, information is now being collected at an unprecedented speed and scale. According to IBM, more than 2.5 quintillion bytes of data are generated a day. From predicting trends to protecting personal information, companies around the world need data scientists to process, explore and harness meaning from their data.
- **Mathematics and Statistics:** Mathematics is the language of science, technology, engineering and finance. It underpins the data analysis, forecasting, modelling, decision-making and problem-solving principles on which modern society depends. Mathematicians contribute creatively to almost every aspect of modern life and this major equips graduates with the mathematical tools and techniques of at least two of the three key disciplines of pure mathematics, applied mathematics and mathematical statistics.

### Requirement for Industry Projects

Bachelor and masters students in Data Science undertake a final year capstone group project as part of the Professional Computing unit. Project teams consist of 5-6 people and each team will have its own industry project assigned. Projects span a 10 week period from August to October and will have available about 100 person-hours from the team as a whole. Industry partners work directly with the students throughout the course of the project and there is no cost incurred for the clients participation in these projects.

You can view further information [here](#).



Honours and masters students can also take up a research project in data science and mathematics and statistics. These projects are arranged by individual agreement between industry partners and the relevant school head. In addition to this, research projects can be undertaken via the [CEED program](#). These projects are completely defined by the client, and deal with matters of immediate business value

to the client. In Full CEED projects, the students spend 8 weeks on site over the summer vacation, immersing themselves in the operations and culture of the enterprise. They continue to work on the project throughout the academic year, presenting the agreed deliverables to the Client at the end of the project. Each CEED Scholar has both an academic supervisor and a mentor from the client enterprise. Project fees are incurred for the industry client to participate in these extensive research projects. Find out more about the CEED program [here](#).