

## INDUSTRY-BASED PROJECTS



Curtin University

### Curtin University Bachelor of Advanced Science

Curtin's Bachelor of Advanced Science (Honours) is designed for talented science students who want to develop their research and/or entrepreneurial skills across the four years of the degree.

The course comprises a selection of discipline-focused units and a full year work-integrated learning (WIL) subject that includes research projects, Industry-engaged activities and solving industry-focussed problems. The intent of this subject is to provide students the flexibility for a personalised approach to learning, and autonomy and decision-making about their learning journey. Outcomes include strengthening discipline knowledge, building capacity in employability capabilities, and developing a sense of professionalism and a professional identity.

### Available Majors relevant to Data Science

The degree has a number of majors that students choose in the first year of the degree. Those that are relevant to projects in a company's data science team include:

- **Computing:** The aim of the Computing major is to prepare high performing students for the areas of Information and Communications Technology stated to be most in-demand and for positions that are the most difficult to fill, based on regular consultations with industry.
- **Data Science:** The Data Science major is multidisciplinary with fields of study in computing, statistics, emerging internet technologies and media studies. Foundational studies in programming and statistics form the basis of higher level studies in data mining, data security and computer simulation.
- **Industrial & Applied Mathematics:** The major includes units in advanced calculus and linear algebra that provide foundation knowledge as well as units in modelling and optimisation, network design and analysis, logistics, supply chain networks, transportation networks, computational mathematics, statistics and probability.



### Requirement for Industry Projects

Second and third year Advanced Science students are encouraged to undertake an industry-based project. The key outcomes from these projects are for students to gain workplace skills, both technical and professional skills, to adequately prepare them for the workforce.

Students work with the unit coordinator and industry contact to develop a project plan, outlining the key tasks and milestones required of the project, provide an overview of the workplace skills they are developing, and take ownership of the delivery of the project.

## The Legals

All student projects are covered by an Industry-Based Project Agreement. This agreement sets out the terms and conditions for a student undertaking an industry-based Project as a part of their credit-bearing course work for their given degree.

There is no requirement for students to disclose confidential findings from the project, claim any intellectual property resulting from the project, nor store or use any data on a personal laptop. Curtin will work with your company to ensure the formal legal agreement in place is suitable to you.

In undertaking the project Curtin University and the student shall treat all Information and Intellectual Property (IP) confidentially and shall not, without the prior written consent of the Company disclose, publish or permit the same to be disclosed to any third party. Any IP created throughout the course of the project shall be owned by the company.

To ensure confidential information does not leave the company's premises, students can undertake the project at the company's premises in an arrangement that is mutually suitable for both parties. For example, the student could spend one day per week at the company for the duration of the project.

While there is no cost incurred by the company to undertake a student project, project related costs including equipment, resources and incidentals will be covered by the company.