

There is an opportunity to work with/learn from an experienced team of science and engineering professionals on a diverse range of commercial green-fields R&D projects.

Data Effects is a South Australian technology company that is committed to providing positive social, economic and environmental outcomes for Australian communities. We work closely with government and private industry on a diverse range of technology-focussed agricultural, environmental and peri-urban research and development projects. Data Effects specialises in project

internship. We are conveniently located in the heart of Adelaide on level 2, 51 Rundle Mall (opposite H&M).

We are looking for talented and enthusiastic postgraduate students from the following disciplines:

*Electronic Engineering* - Contribute to design and development of a remote area telecommunication and environmental sensor system to monitor native animal habitat and identify the occurrence of feral species. Opportunities include:

PCB design and layout.

Design and implementation of a bespoke solar energy management system.

Adaptation and integration of existing satellite backhaul solutions.

Design, adaptation and integration of new and existing camera solutions (UV, visible, Infrared and thermal).

**Software Engineering, Computer Science and Artificial Intelligence** - Contribute to the design and deployment of an existing Data Effects cloud-based IoT data management, visualisation and Artificial Intelligence (AI) platform. Opportunities include:

Modern tech stack and tools including C#.Net, Python, VueJS, PostgreSQL OpenAPI 3. Development of server-side algorithms for image / data management with Web-based visualisation

Exposure to cloud environments such as AWS, Azure and/or GCP.

Embedded / firmware development working with electronic engineers on bespoke IoT hardware components.

Database design and implementation.



Commercial and Industrial Design - Contribute to the industrial design of a field-  $\ensuremath{\text{\fontfamily Commercial}}$  --r1