

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.

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

Electronic Engineering - Contribute to design and construction of field-deployable, fully automated snail movement and environmental monitoring surveillance systems. 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).
- Collaboration with software developers to facilitate appropriate embedded software solutions.

Software Engineering - Contribute to design and construction of field-deployable, fully automated snail movement and environmental monitoring surveillance systems. 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 hardware components.

Commercial and Industrial Design - Contribute to the industrial design of field-deployable, fully automated snail movement and environmental monitoring surveillance systems. Opportunities include:

Product prototyping (3D printing and CAD).

Design practical technology hardware solutions for field deployment in remote locations (style, function, quality and safety).

Work in collaboration with fabrication and design partners (e.g. [Rowland Metalworks](#)) to facilitate the manufacturer of commercial products.