

ONE BASIN CRC – STUDENT INTERNSHIP PROGRAM

Internship opportunities provided by industry partners

Name of Internship: SARDI Irrigated Crops internship
Internship ID: 22-10

Date posted: Fri 30 September 2022 **Application due date:** 5pm Thurs 20 October 2022

Internship description: *An opportunity to work on existing research projects with the SARDI Irrigated Crops program.*

There are three existing projects based at the Lower Basin Hub (Loxton) that an intern could work on:

- 1) Improving climate resilience by matching irrigation to almond canopy size and water use
- 2) Quantifying potential ecological and irrigation efficiency benefits related to implementation of innovative irrigation fish exclusion screens
- 3) The commissioning to two weighing lysimeters to support the quantification of almond water use.

Students at any stage of studies can apply as the industry partner is looking at their skill-set and interest in the project.

Type of internship*: Research Practical workplace Short-term project

Preferred academic courses / disciplines: Agronomy, horticulture, agricultural studies, environmental & earth sciences, ecology, natural resource management

Type of degree program: Undergraduate Honours Masters

Preferred period of internship: Summer university break (November-March). If required, the internship can extend into the first semester.

Full-time, part-time, hours per week: Full-time preferred; part-time possible.

Location of internship: Based at the Lower Basin Hub (Loxton Research Centre). Potential for working from Adelaide (Waite Campus) lab and travelling to the Lower Basin Hub.

Stipend or financial support: Unlikely, but can be discussed

Will any aspect be completed off-site/ remotely from the internship location? Yes - we have a field-based program so much of the work will be completed on growers properties in the lower basin.

Technical skills and capabilities preferred:

- Knowledge in the area of agricultural technology, and its application in viticulture/horticulture
- Knowledge and skills in soil and plant water relations
- Understands the general issues facing irrigation management of viticultural and/or horticultural crops
- Demonstrated ability to collect high quality, repeatable measurements
- Ability to use a full range of PC applications, including Excel, Word, Outlook and Internet browsers.

Employability skills and capabilities preferred: Attention to Detail - Pays attention to detail to ensure one's own work is timely, accurate and reliable.
 Planning and Organising (Work Management) - Sets own work priorities, uses tools (e.g. calendar, files charts) and time efficiently to meet work objectives.
 Collaborative Approach - Works easily with others to achieve shared outcomes; recognises issues that impact on others; seeks out, and is open to, input from other key players before making decisions.

General requirements: Police check. Driver's licence essential. A vehicle to travel to the lower hub would be advantageous.

Specific OH&S requirements: Employees at PIRSA are required to acknowledge the below work, health and safety obligations and our expectations.
 All employees follow workplace safety procedures by: accepting responsibility for own and other's safety actively participating in consultation about work, health and safety issues identifying and reporting hazards and identifying risk controls where appropriate.

Name of CRC industry partner: South Australian Research and Development Institute
 Irrigated Crops program
<https://pir.sa.gov.au/research>

Type of CRC industry partner: NRM Consulting Agribusiness
 Technology Water utility Government agency

Description of Organisation: The South Australian Research and Development Institute (SARDI) is the South Australian Government's principal research organisation within Primary Industries and Regions SA (PIRSA). SARDI programs are client-focused to deliver directly applicable solutions and advanced technologies. SARDI's Irrigated Crops program focuses on improving the resilience of horticultural production systems and sustainable agricultural water management. It brings together a team with a unique combination of soil and irrigation science, salt and nutrient transport modelling, plant agronomy and nutrition. A continuing goal for SARDI's Irrigated Crops program has been the development of irrigation optimisation, drought response and rootzone salinity management strategies.

*** Types of internship:**

- **Research internship:** conducting research-related tasks for organisations and/or researchers internal or external to the University. Tasks vary but may include study design, participant recruitment, data collection and analysis and reporting findings. Depending on the research, it may be completed face-to-face or remotely/externally; students may complete a minimum number of hours/days depending on the course, could be from several weeks to months.
- **Practical workplace internship:** undertaking hand-on tasks that enable development of employability skills and application of degree knowledge in a not-for-profit, university, government, non-government organisation or industry. The internship is likely to be face-to-face, but depending on the nature of the tasks and the student's study area, there may be scope for some remote/external work; students complete a minimum number of hours/days depending on the course, could be from several weeks to months.
- **Short-term project:** where interns complete a set project that has agreed desired outcomes and deliverables. Depending on the project, it may be completed face-to-face or virtually/remotely/externally; students complete a minimum number of hours/days depending on the course, could e.g. be a 100 hrs.)