

# Science and Innovation Awards

for Young People in Agriculture, Fisheries and Forestry



# CRDC Researchers' Handbook 2023-24

## Introduction.

Welcome to the **CRDC Researchers' Handbook 2023-24**: a comprehensive guide for researchers to CRDC's investment in cotton research, development and extension (RD&E).

CRDC's purpose is to grow the sustainable future of cotton through innovation with impact. We deliver world-class research, development and extension (RD&E) outcomes for the cotton industry, through thought leadership, innovation and adoption, collaboration and partnership. Our comprehensive research program seeks ambitious outcomes around the long-term environmental, economic and social sustainability of the cotton industry – outcomes that we can only achieve in collaboration with a strong team of researchers.

This Handbook references our new CRDC Strategic RD&E Plan for 2023-28 – Clever Cotton – which comes into effect from 1 July 2023. Clever Cotton is our plan to achieve a sophisticated, prosperous cotton industry, connected through our value chain delivering sustainable cotton – and we invite research partners to join us to achieve this.

We have designed this Handbook to provide information and advice to researchers who are interested in applying for CRDC investment funding (with information on our 2023-28 Strategic RD&E Plan and the industry's key research priorities, our procurement round process, and our key dates); and for those who are already part of our research collaboration (with a snapshot of key information from our research deed as a ready-reference guide to our agreement).

We wish you success in your research, and look forward to working with you to help enhance the performance of our cotton industry. If you have any questions regarding the contents of this Handbook, please contact CRDC's Innovation team on 02 6792 4088 or via [research@crdc.com.au](mailto:research@crdc.com.au).



Allan Williams,  
General Manager, Innovation

*On the cover: Research scientist Dr Cong Vu, recipient of the CRDC-supported ABARES Science and Innovation Award for 2023, pictured with the Minister for Agriculture, Fisheries and Forestry, Senator the Hon. Murray Watt. Cong is applying his experience using nanoparticles for cancer treatment to protect Aussie cotton crops from drought.*

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## About CRDC.

The Cotton Research and Development Corporation (CRDC) delivers outcomes in cotton research, development and extension (RD&E) for the Australian cotton industry.

A partnership between the Commonwealth Government and cotton growers, CRDC exists to invest in world-leading RD&E to benefit Australia's dynamic cotton industry, and the wider community. Our investments are governed by a five-year strategic plan, and 2023-24 marks the first year under CRDC's new Strategic RD&E Plan 2023-28: Clever Cotton.

Clever Cotton defines what CRDC aims to achieve over the next five years and what we will do to get there. It commits us to invest in RD&E to address and capitalise on challenges and opportunities for the benefit of levy payers, the cotton industry, and the wider community.

Clever Cotton is aligned to the Australian cotton industry's sustainability framework, which recognises that sustainability is integral to the industry's future success, and provides a pathway for the entire industry. It charts an ambitious new course through three pillars of investment – PADDOCK, PEOPLE, PLANET. Our goal is to add an additional \$1 billion in economic value to the Australian cotton industry over the next five to ten years.

The first round of strategic RD&E investments under Clever Cotton will help set the direction for the Australian cotton industry. In 2023-24, Australian cotton growers and the Commonwealth Government will co-invest \$20.98 million through CRDC into cotton RD&E, across approximately 200 projects and in collaboration with around 100 research partners.



## The Australian cotton industry's research priorities.

CRDC has two key stakeholders: cotton growers (through Cotton Australia) and the Australian Government (through the Minister for Agriculture, Fisheries and Forestry, and the Department of Agriculture, Fisheries and Forestry).

As such, the research priorities for the cotton industry are set at both the industry and the Government level. CRDC takes these priorities into account in setting its own research priorities, through the development of the CRDC Strategic RD&E Plan.

### Industry

CRDC is accountable to the cotton industry through its representative organisation, Cotton Australia. As the industry peak body, Cotton Australia is responsible for providing advice on industry research priorities.

CRDC engages with Cotton Australia in a formal process of consultation in the development and implementation of the Strategic RD&E Plan including RD&E investments. This engagement ensures industry research priorities are regularly reviewed; emerging issues are actively considered; and facilitates the uptake of research in the form of best practices and the overall performance of the Australian industry.

## Government

CRDC is accountable to the Australian Government through the Minister for Agriculture, Fisheries and Forestry. Government communicates its expectations of CRDC through Ministerial direction, enunciation of policy, administration of the *Primary Industries Research and Development (PIRD) Act 1989*, and priorities (Science and Research Priorities and National Agricultural Innovation Priorities). CRDC responds to government expectations through regular communication, compliance with policy and legislated requirements, and the development of Strategic RD&E Plans, Annual Operational Plans and Annual Reports.

### *Government research priorities:*

The PIRD Act makes provision for funding and administration of primary industry R&D with a view to:

- increasing the economic, environmental and social benefits to members of primary industries and to the community in general by improving the production, processing, storage, transport or marketing of the products of primary industries;
- achieving the sustainable use and sustainable management of natural resources;
- supporting the development of scientific and technical capacity;
- developing the adoptive capacity of primary producers; and
- improving accountability for expenditure upon research and development activities in relation to primary industries.

The Australian Government describes Science and Research Priorities and National Agricultural Innovation Priorities.

### *The Science and Research Priorities are:*

- Food;
- Soil and water;
- Transport;
- Cybersecurity;
- Energy;
- Resources;
- Advanced manufacturing;
- Environmental change;
- Health.

### *The National Agricultural Innovation Priorities are:*

- Australia is a trusted exporter of premium food and agricultural products;
- Australia will champion climate resilience to increase the productivity, profitability and sustainability of the agricultural sector;
- Australia is a world leader in preventing and rapidly responding to significant pests and diseases through future-proofing our biosecurity system;
- Australia is a mature adopter, developer and exporter of digital agriculture.

## The Cotton Sector RD&E Strategy

The Cotton Sector RD&E Strategy sets out priorities for the cotton industry's RD&E organisations to cooperate on a national basis to address the overall needs of the industry, including:

- Better plant varieties;
- Improved farming systems;
- People, businesses and communities;
- Product and market development; and
- Development and delivery.

CRDC is committed to supporting the implementation of the cross sectoral strategies including climate change, soils, plant biosecurity and water use.



## CRDC’s strategic RD&E priorities.

Taking into account the stakeholder priorities, CRDC establishes its own strategic priorities. CRDC’s Strategic RD&E Plan 2023-28 contains three pillars of investment – Paddock, People, Planet – aligned with the Australian Cotton Industry’s Sustainability Framework. Each of these pillars contains three themes, creating nine key investment areas. The key focus areas for investments within these priority areas are outlined below and over the page.

Researchers interested in securing CRDC support must be able to demonstrate how their proposed research will help achieve these outcomes, while researchers already on contract to CRDC must be able to demonstrate how their research contributes to the outcomes.

The Strategic RD&E Plan 2023-28 is available to download from the CRDC website: [www.crdc.com.au/strategicplan](http://www.crdc.com.au/strategicplan). All researchers are expected to have read the plan before applying for funding.

**PADDOCK** **OUR FUTURE FIELDS**

**DATA-DRIVEN DECISIONS**  
Improve productivity, profitability, and sustainability by accurately monitoring and measuring every field on every cotton farm.

**ADAPTIVE SYSTEMS**  
Grow profitability and resilience through innovative solutions, technologies and practices.

**CONNECTED MARKET INTELLIGENCE**  
Enhance the sustainability, market access and value of Australian cotton.

**PEOPLE** **CENTRAL TO OUR SUCCESS**

**DESIGN & INNOVATION**  
Collaboration drives prioritisation, design, development, and adoption.

**LEADERSHIP & CAPACITY**  
Develop people and skills to support industry RD&E.

**ADOPTION & IMPACT**  
Adopt knowledge and technology through dedicated pathways.

**PLANET** **OUR SHARED FUTURE**

**NATURAL CAPITAL**  
Resilient natural capital practices that support productivity, maintain biodiversity, strengthen climate change adaptation, & improve land and soil quality.


**CARBON**  
Establish a sustainable low-carbon cotton production system for a changing future.

**CIRCULAR ECONOMY**  
Develop the circular economy for Australian cotton.

# Snapshot: CRDC's Strategic RD&E Plan 2023-2028

## Paddock

Our future fields



### Data-driven decisions

**Objective**  
Improve productivity, profitability, and sustainability by accurately monitoring and measuring every field on every cotton farm.

**Impact**  
In 2028, a transparent and trusted data platform will deliver increased profitability and productivity through better decision-making, facilitating innovative research, and building trusted engagement.



### Adaptive systems

**Objective**  
Grow the profitability and resilience of Australian cotton-farming systems through innovative solutions, technologies and practices.

**Impact**  
In 2028, Australian cotton-farming systems are resilient, biosecure, and able to thrive in an increasingly variable climate with enhanced resource efficiency.



### Connected market intelligence

**Objective**  
Enhance the sustainability, market access and diversity, and value of Australian cotton.

**Impact**  
In 2028, Australian cotton growers are preferred suppliers of sustainable cotton.

## People


Central to our success



### Design and innovation

**Objective**  
Embed collaboration in RD&E prioritisation, design, development, and adoption.


**Impact**  
In 2028, growers can see RD&E addressing their problems and creating practical solutions to be adapted and adopted into their production systems.



### Leadership and capacity

**Objective**  
Develop people and skills to support industry RD&E.

**Impact**  
In 2028, the development of world-class research capability supports industry goals.




### Adoption and impact

**Objective**  
Adopt knowledge and technology through dedicated development and delivery pathways.

**Impact**  
In 2028, adoption has increased its rate, reach and effectiveness.

## Planet


Our shared future



### Natural capital

**Objective**  
Implement resilient natural capital practices that support productivity, help maintain biodiverse ecosystems, strengthen capacity for adaptation to climate change, and progressively improve regional water, land and soil quality.


**Impact**  
In 2028, cotton farms have maintained and enhanced natural capital and are more resilient to shocks.



### Carbon

**Objective**  
Establish a sustainable low-carbon cotton production system for a changing future.

**Impact**  
In 2028, the cotton industry meets market, community and government expectations for carbon.



### Circular economy

**Objective**  
Develop the circular economy for Australian cotton.

**Impact**  
In 2028, the cotton industry can participate in the circular economy, providing lasting end-of-life solutions for cotton textiles.

# Section 2: Applying for funding

## Funding available.

The majority of CRDC's investment funds are allocated to RD&E projects under the annual procurement round process. Projects are generally three years in duration.

The procurement round commences in May for investment in projects that will commence in the following financial year (ie. the round commencing in May 2023 is for funding for the 2024-25 financial year) and researchers and research organisations are invited to apply.

CRDC provides researchers with clarity around the specific outcomes that the Australian cotton industry and Government are seeking to achieve by calling for research funding applications through Expressions of Interest (EOI). More information is available below under *the procurement process*.

A small amount of funding may also be made available by CRDC for commissioned projects, which are those the CRDC specifically commissions to achieve selected objectives within the Strategic RD&E Plan. An open call is not held for commissioned projects – rather, the CRDC approaches researchers to undertake these projects according to their speciality or areas of expertise.

Funding for researchers may also be available in the form of Travel Grants and Scientific Exchanges, depending on CRDC budget availability. Research organisations may also be interested in hosting a university student for a Summer and/or Honours Scholarship. More information is available under *Scholarships, Travel Grants and Scientific Exchanges*.

## The procurement process.

CRDC's annual procurement round is the key opportunity for researchers and research organisations to apply for funding for research into CRDC's priority areas.

The procurement round begins with a strategic review of each of the goals under the CRDC 2023-28 Strategic RD&E Plan (through discipline and research priority forums involving CRDC, Cotton Australia, the research advisory panels, CottonInfo and researchers) in May-June to identify the research needs and gaps.

Following this review, CRDC then releases a suite of Expression of Interest (EOI) documents inviting researchers to submit Full Research Proposals against EOIs of interest. Each EOI:

- Identifies the issue to be addressed
- Provides a brief overview of the project (the idea here is not to be prescriptive, but to allow the researcher to bring their ideas to the project and enable innovation)
- Defines the outcomes to be achieved
- States any outputs to be delivered
- Outlines selection criteria to be met for the successful awarding of the project.

An EOI may also provide guidance as to how much CRDC is prepared to invest in a particular area to achieve that outcome.

Once the EOIs are prepared, researchers are invited to develop a Full Research Proposal (FRP) in response. Once submitted, the FRPs are evaluated by the Cotton Australia panels and CRDC's Innovation Brokers (formerly called R&D Managers), and recommendations made to the CRDC Board.

The CRDC Board will determine the successful projects, and preliminary advice will be provided to successful researchers ahead of formal advice/contracting.

## Key dates.

Under the new Strategic Plan (commencing 1 July 2023), CRDC will be moving away from holding a single funding round and fixed dates for calls for Full Research Proposals (FRPs) to a more rolling approach.

Opportunities to apply for research funding will be advertised on the CRDC website and advised through the regular 'CRDC Under the Microscope' e-newsletter for researchers. To subscribe, please visit [www.crdc.com.au/subscribe](http://www.crdc.com.au/subscribe). Be sure to select 'Researcher' to receive the researcher-specific e-news.

## How to apply.

**To apply for CRDC research funding, researchers must follow the application process below.**

In September 2022, CRDC transitioned to a new grant management system – Fluxx ([crdc.fluxx.io](http://crdc.fluxx.io)). If you wish to submit a Full Research Proposal (FRP) to CRDC, you will need to utilise the new Fluxx system.

If you are a currently-supported CRDC researcher or administrator, you will already be in the Fluxx system.

*Please note:* to complete an FRP within Fluxx, your organisation and administrator will also need to be registered in the system. All users connected to your organisation in Fluxx will appear in the dropdown options. If they do not appear in the list, please contact them to register for Fluxx.

### To Register

1. To register to as a Fluxx user, visit [crdc.fluxx.io](http://crdc.fluxx.io) and select 'Grantee User Registration'.
2. Review the terms, conditions and privacy policy and if you accept tick 'agree'.
3. Complete the registration form and 'submit request'.

### To access the Expressions of Interest (EOIs)

1. Once you have logged into Fluxx, on the left hand side you will find a navigation panel.
2. Under 'Expressions of Interest', you will find the EOIs open for funding applications.
3. On the EOI you are interested in, select 'Apply for Funding'. This will open up the application form for you to complete.

### To submit a Full Research Proposal (FRP)

On the CRDC website, you will find a word version of the fields that are required to be completed in Fluxx.

***Please note: Word document application forms will no longer be accepted by CRDC. The provided form is to help you draft the text for pasting into Fluxx only.***



Where there are system limitations that prevent the ability to include graphs, pictures or background documents, attachments can be uploaded with your application. Please note you must abide by character limits where applicable. Attachments cannot be used as workarounds for the text fields in Fluxx.

### **To complete a Budget**

Completing the budget is a two-step process:

1. Please complete the Excel spreadsheet. The spreadsheet is available from the CRDC website or from within the EOI form.
2. Copy the summary information from the Excel into Fluxx and upload the document.

**Please ensure you select 'save and continue' as you progress, as the system does not auto-save.**

If you have any queries, please contact the CRDC Project Administration team via 02 6792 4088 or [research@crdc.com.au](mailto:research@crdc.com.au).

### **Tips for success:**

Applicants should be aware that both the Cotton Australia research advisory panels and CRDC assess research proposals against a range of criteria. Applications for investment funding which do not address the criteria will not succeed.

When developing a submission, keep the following points and questions in mind:

- Does your application align with and support the outcomes described in the EOI?
- How will your research fit/complement/add to current or prior RD&E? Is it novel RD&E?
- How will your research fit into CRDC's Strategic RD&E Plan 2023-28, and what measurements could be used to assess the progress and outcomes of the proposed research?
- What are the expected outcomes of the proposed project? Demonstrate how your proposal represents a sound investment for CRDC's stakeholders.
- Is the research potentially of significant benefit to the Australian cotton industry and the community?
- Is there potential for the commercialisation of outputs, and if so, how can this best be put into effect? Or are the outputs more efficiently and effectively exploited by encouraging rapid and free adoption by the industry or the community?
- Where expected outcomes will require adoption by the industry or community to achieve the maximum benefit, what approach is planned to encourage this?
- Are the priority objectives established by Government, CRDC and the industry fully addressed – including industry sustainability and flow on benefits to regional development and the national economy and public good?

## Scholarships, Travel Grants and Capital Investments.

CRDC may accept applications for the following types of investment:

- Postgraduate scholarships
- Travel grants
- Scientific exchanges
- Summer and Honours scholarships
- Major capital items (>\$10,000)

### Postgraduate scholarships

When funding is available, CRDC provides postgraduate scholarships to students.

The first scholarship is a PhD top-up scholarship of up to \$10,000 per annum, which can be applied for by those cotton-relevant scholars who are receiving a Research Training Program (RTP, or equivalent) scholarship.

The second scholarship is a postgraduate scholarship, which can be applied for by masters or PhD students, to assist with the completion of a cotton industry-specific project. These projects may relate to any field of cotton-research related to CRDC's Strategic RD&E Plan. The postgraduate scholarships are valued at approximately \$40,000 pa, which includes a student stipend of \$34,000 pa (inclusive of an APA or other funding) and an operating budget of \$6,000 pa. Operating can be increased dependent on the project.

To be eligible for a CRDC postgraduate scholarship, candidates must:

- Be an Australian citizen or permanent resident
- Undertake postgraduate study
- Receive acceptance at a recognised institution
- Be interested in working in the Australian cotton industry to pursue postgraduate studies relating to the cotton industry or its related activities

Interested students are advised to speak to CRDC about available scholarships.

### Travel grants

Travel applications support current industry researchers and personnel to attend national or international conferences or events which allow them to present their research and/or build their knowledge and professional networks.

Funding of up to \$2,500 is available to cover transport, accommodation and event registration fees. The proposed travel must be relevant to Australian cotton, and CRDC's preference is for research organisations to co-fund travel.

### Scientific exchanges

Scientific exchanges provide opportunities for industry researchers and personnel to widen their research perspective, gain a broader research experience, build new knowledge, foster scientific collaboration and stimulate Australian cotton research.

Funding of up to \$5,000 is available to cover travel and accommodation costs of the identified exchange candidate. The proposed exchange must be of benefit to the Australian cotton industry, and CRDC's preference is for research organisations to co-fund the exchange.

### Summer and Honour Scholarships

The Summer and Honours Scholarship program provides students with an opportunity to work on a real project in a working environment as part of their professional development. The scholarships enable university students to conduct short research, extension or industry projects under the direct supervision of a researcher or extension officer from either the public or private sector.

Funding is available to cover up to \$4,000 (\$500 a week) salary or stipend and up to \$1,000 travel and/or operating costs.

All CRDC research partners, researchers or extension officers may apply for CRDC Summer and Honours Scholarship funds, and the scholarships are open to all university students of a high standard who are completing their senior years of an undergraduate degree or enrolled in an honours program.

Students can undertake their project at any location but must be under the direct supervision of the applicant.

Proposals will be assessed on their alignment with CRDC's research priorities and objectives and the capacity for outcomes to be achieved within the specified time frame.

### **Major capital items**

CRDC occasionally considers requests for major capital investment assistance for items greater than \$10,000 in value. Requests for funding can be emailed to [research@crdc.com.au](mailto:research@crdc.com.au). CRDC may release a major capital item expression of interest (EOI) on the CRDC website or via the Fluxx grant management website.

## **How to apply - scholarships, travel grants & scientific exchanges**

To apply for CRDC postgraduate scholarships, travel grants, scientific exchanges, or summer and honours scholarships, researchers must apply via CRDC's new grant management system, Fluxx ([crdc.fluxx.io](https://crdc.fluxx.io)).

### **To Register**

1. To register to as a Fluxx user, visit [crdc.fluxx.io](https://crdc.fluxx.io) and select 'Grantee User Registration'.
2. Review the terms, conditions and privacy policy and if you accept tick 'Agree'.
3. Complete the registration form and 'submit request'.

### **To access the Expressions of Interest (EOIs)**

1. Once you have logged into Fluxx, on the left hand side you will find a navigation panel.
2. Under 'Expressions of Interest', you will find the EOIs open for funding applications.
3. On the EOI you are interested in, select 'Apply for Funding'. This will open up the application form for you to complete.

**Please ensure you select 'save and continue' as you progress, as the system does not auto-save.**

Administrators, on behalf of your organisation please review the application and confirm approval for submission to CRDC.

If you have any queries, please contact the CRDC Project Administration team via 02 6792 4088 or [research@crdc.com.au](mailto:research@crdc.com.au).

# Section 3: Information for successful applicants

## Project agreement.

Following a decision by CRDC to commit to investing in an application, several processes come into play before a project can officially commence.

### Preliminary advice

CRDC will provide preliminary advice to the successful applicant and their research organisation concerning the application approval decision. At this stage, the project is pending Ministerial approval of CRDC's Portfolio Budget Statement.

Preliminary advice could also include a request for a revised application to amend objectives, milestones, project budgets or to provide additional information about project details and Intellectual Property (IP).

Following Ministerial approval of the CRDC Portfolio Budget Statement, final advice is provided to applicants and their research organisations and the project moves to the contracting stage.

### Contracting

Following Ministerial approval of the CRDC Portfolio Budget Statement, the successful research organisation will be required to enter into a contractual agreement with CRDC, which contains obligations around:

- IP ownership and exploitation
- Reporting against milestones, outputs and outcomes
- Financial accountability.

## Key contractual information.

Six of the key areas covered by the contract agreed to by the research organisation are:

- Financial management
- Intellectual Property (IP)
- Reporting
- Project variations
- Publication
- Project collaboration agreements

We have included the key information that all CRDC-contracted researchers need to know about these six areas in this Handbook, as a ready reference guide. Further information can be found in the CRDC research deed or project agreement.

### Financial management

CRDC partners in research by calling for Full Research Proposals (FRPs) with detailed budgets. The FRPs allow the CRDC research managers, CRDC Board and cotton industry representatives to assess the value of each project before allocating our limited financial resources to projects. The FRPs are an essential benchmark that are used to assess the progress of the projects, the milestones achieved and the efficient use of the funds.

The CRDC deed provides contractual obligations on the management of project funds so that:

- The funding is applied exclusively in respect of the heads of expenditure as per the contracted budget (deed clause 41);
- The research organisation must provide their contributions;
- Third party resources require CRDC approval before they are used for the project;
- Surplus funds are returned to CRDC; and
- Any grant or external funding is listed.

In addition, the deed requires:

- Research organisations and principle researchers to use CRDC funds only for the types of expenses that CRDC agreed to fund in the contracted FRP budget;
- Researchers to seek CRDC approval before using CRDC funds for other purposes such as transferring to another head of expenditure, or funding additional staff or operating expenses; and
- Researchers to obtain CRDC's approval before changing team members, milestones, or milestones dates.

### **Intellectual Property (IP)**

CRDC works with research organisations on an individual project basis around intellectual property ownership and technology commercialisation. An IP register is established for each new project application, which records all background IP brought into a project, and any new IP proposed to be developed throughout a project. In the majority of cases, the research outcomes from CRDC investment will result in technical knowledge, rather than the creation of new technologies/products that require specific IP protection/commercialisation.

As a result, the focus is on developing an adoption pathway for grower uptake of this knowledge. Each researcher provides an 'adoption pathway proposal' with their research application (FRP). Where projects do have significant and identifiable background IP and potential project IP, a more detailed analysis, valuation and risk assessment is conducted by CRDC, and an IP position negotiated with the research organisation.

CRDC's seven guiding principles for IP management:

1. IP Management is integral to RD&E investment decisions:
  - a) CRDC will seek to manage the IP identified in research projects in such a way as to maximise the benefit to the cotton industry, which will include an assessment of the proposed adoption pathway for each relevant project.
2. IP Management is a means to an end, not an end in itself:
  - a) IP management is the process used to identify and establish rights in IP, appropriately protecting the IP and thereafter to optimise the benefits from IP through exploitation.
  - b) CRDC will adopt a flexible and adaptable approach to IP Management and IP Ownership, including seeking novel models of co-ownership where industry benefit is maximised.
3. IP Management facilitates decision-making on pathways for impact:
  - a) CRDC's research application will require a proposed 'pathway to impact'.
  - b) CRDC requires a Technology Adoption Plan to manage the impact of Project IP or Scholarship IP and to assess the benefits of disseminating IP through either public domain, Australian cotton industry domain, commercialisation or further research.
4. IP ownership and use rights are important and must be carefully considered:
  - a) Clear chain of title is important for any commercial activities
  - b) Ownership and use of IP has inherent rights and obligations, including the IP owner's right to secure and benefit from the IP.
  - c) CRDC will ensure appropriate procedures are in place to safeguard the copyright and confidentiality of another party's IP.
  - d) Research organisations may be required to demonstrate that they have appropriate IP policies and procedures in place to help protect CRDC IP.
  - e) CRDC reserves the right to request assignment of copyright in works created in the course of CRDC-supported research.
  - f) CRDC may reserve a right of first refusal to purchase another party's share of any IP rights that arise from a CRDC supported project.
5. "Freedom to operate" can minimise barriers to commercialisation and RD&E investment:
  - a) CRDC may request that permission to use third party IP and/or background IP rights.
  - b) CRDC may request that a research organisation helps in ensuring that research outcomes do not infringe the rights of others.



6. “Rights to publish” is part of a broader IP management strategy:
  - a) CRDC acknowledges that public research organisations may require information from RD&E investments to be published as part of their purpose or to allow students to complete their thesis.
  - b) CRDC will ensure appropriate procedures are in place to manage IP owner’s rights and confidential information when assessing publications.
7. IP Risk Management Strategies are essential to protect IP rights and benefits:
  - a) Each organisation responsible for the generation and management of IP should develop and implement IP risk management strategies.
  - b) Effective IP risk management should strike an appropriate balance between the merits and risks of protecting and granting access rights to IP.
  - c) CRDC will apply appropriate risk management assessment to IP management.

## **Reporting**

Reporting is an important part of working with the CRDC. If you are successful in securing funding your contractual arrangement will outline your reporting requirements, such as progress reports, final reports, travel reports, annual financial statements and IP registers. A summary of the CRDC’s required reports is as follows.

All reports are to be completed in CRDC’s new grant management system, Fluxx ([crdc.fluxx.io](https://crdc.fluxx.io)).

### *Progress Reporting*

For all CRDC-supported research projects, a progress report is required annually or every six months for the life of a project. For Postgraduate Scholarships, the supervisor of the scholarship recipient is to provide a summary report on the progress of the recipient as part of the progress report.

### *Final Reports*

At the conclusion of a CRDC-funded research project, the researchers must provide a final report (an electronic copy) to the CRDC by the date specified in the contract or within 60 business days after the end of the project. Final reports will be published on the Inside Cotton website ([www.insidecotton.com](https://www.insidecotton.com)) unless deemed to be Commercial In-Confidence or confidential. In this instance, a version suitable for public release will be required.

For Postgraduate Scholarships, students must email a copy of their plain English summary when they submit their thesis for examination. Once approved, an electronic copy of the awarded thesis is to be provided to CRDC.

### *Travel Report*

Reporting required for Travel Grants and Scientific Exchanges is dependent on the nature of the travel. CRDC may require a comprehensive report which will be communicated to the applicant at the time of investment approval. In most cases, a report reviewing travel and/or conference participation is due within 30 business days of completing the travel and/or conference attendance.

### *Annual Financial Statements*

CRDC requires researchers to provide an annual financial statement for each project by the date specified in the contract or within 60 business days of the end of each financial year. The statement must be in the format provided by CRDC and authorised by an independent accounting officer. Reporting in the Fluxx system will require a summary financial report and will allow you to request a carry forward of funds and/or budgetary transfer.

### *Reporting and CRDC's Schedule of Payments*

CRDC generally makes quarterly payments tied to reporting milestones. Frequency of payments will depend on the duration of each contract, type of investment and any special conditions contained in a grant agreement. Importantly, CRDC does not make payments until it has received and approved milestone reports from the researcher. CRDC will withhold final payments until the final report, final register, intellectual property and final financial statements (or a satisfactory equivalent as determined by CRDC) has been received and approved by CRDC.

### **Project variations**

Before making a variation to an existing contract (such as objectives, milestones, team members, third party resources, end date etc), research organisations must notify CRDC and gain written approval.

If the researcher is aware of the need for a variation, please discuss with CRDC as soon as possible, and request an amendment via Fluxx. The request will then be reviewed by the relevant CRDC Innovation Broker, and considered for approval by CRDC management.

### *IP Ownership Changes*

Initial IP information is provided by the research organisation as part of the contractual documentation for the project. Researchers must regularly review this information and provide CRDC with an updated version within 20 business days of changes occurring. Both CRDC and the research organisation will notify the other party if there has been a change of ownership or usage rights to any background IP it may have provided to a project. Changes to the IP register should be submitted via Fluxx as an amendment request.

### *Budget variations*

Requests for budget variations must be provided when a financial issue arises within the project, along with justification for the request. Researchers are asked to discuss with CRDC and then submit an amendment request via Fluxx along with a revised budget document to CRDC for consideration for approval.

### *Surplus funds of a ceased project*

CRDC will raise an invoice for any surplus funds at the end of a project as identified in the financial report. Requests to utilise/transfer surplus funds to other projects at the end of the project will not be considered.

### **Extension requests for research reports**

Requests for deadline extensions for CRDC-supported research reports are subject to a formal approval process. Requests for extensions must be completed against the report in Fluxx.

Once received, the request for extension will be considered by the relevant CRDC Innovation Broker. Please note: a request for a deadline extension does not guarantee approval. CRDC will respond with the request outcome via Fluxx. This approach ensures that all relevant parties are aware of the request, and the potential impacts to project timelines.

## Publication

CRDC recognises how important it is to researchers to publish the outcomes of research, as getting findings out to growers and other key stakeholders is critical to us too. The CRDC research deed contains a publication clause, relevant to all who receive funding from CRDC – be it for research or scholarships.

The clause relates to approval and acknowledgement of CRDC in all publications (including media releases, journal articles, conference papers, research posters, social and online media, video interviews, dedicated publications and brochures, e-newsletters etc).

The clause asks all CRDC-supported researchers to send materials to the relevant CRDC Innovation Broker **before publishing** (via the process outlined at the bottom of this page), for a number of reasons: to check for accuracy, to provide helpful suggestions, to ensure no IP or commercialisation issues, and to provide content for CRDC's *Spotlight* magazine. It also requires researchers to acknowledge CRDC's funding, so that the two key CRDC stakeholders – cotton growers and the Australian Government – can see where funds are being spent.

Below are the top four requirements under the clause. The full deed is available to download from the CRDC website [www.crdc.com.au/for-researchers](http://www.crdc.com.au/for-researchers).

- 1. Researchers must not publish during their research term, or for one year after their project, except with CRDC's written permission.**  
Exceptions to this are: if the project's finished and CRDC has approved the final report; if CRDC has agreed in writing that there are no commercialisation issues; and/or if CRDC has approved the release of information into the public domain. Importantly, CRDC won't unreasonably withhold approval, but it does retain the right to review anything researchers wish to publish to ensure it is ready for publication.
- 2. Any request to publish must contain a copy of the material ready for publication and details of when and where it will be published.**  
Requests to publish are to be submitted following the process outlined at the bottom of this page.
- 3. CRDC must be acknowledged as a funding source.**  
The acknowledgement is to read: *The research provider (insert name) acknowledges the financial assistance of the Cotton Research and Development Corporation (and if applicable add other funding partners or grants) in order to undertake this project.*  
  
The acknowledgement, and its associated disclaimer, can be found in schedule six of the funding deed.  
  
The CRDC logo is available to researchers for inclusion in all CRDC-supported project materials. The logo is available on request from CRDC, and must be applied according to the branding guidelines, outlined in more detail under the *Use of the CRDC logo* section of this document.
- 4. Once published, researchers must provide CRDC with an electronic copy of the publication in high resolution, colour PDF.**

Submission of publications for review by CRDC Innovation Brokers is to be completed in Fluxx, following the process outlined below:

1. Log into Fluxx ([crdc.fluxx.io](http://crdc.fluxx.io))
2. Go to 'Add a publication'
3. Select the Project ID, enter the publication details and upload the document. Select 'save and close', then 'submit'.

If you require assistance, please contact the CRDC Project Administration team via 02 6792 4088 or [research@crdc.com.au](mailto:research@crdc.com.au).

## Use of the CRDC logo.

The CRDC logo is available to researchers for inclusion in all CRDC-funded project materials. The logo, and its guidelines, are available for researchers to download from the CRDC website: [www.crdc.com.au/brand](http://www.crdc.com.au/brand).



## CRDC research survey policy.

CRDC recognises that in order to complete some CRDC-supported RD&E projects, researchers may require information from, or access to, cotton growers on the CRDC database for survey purposes.

It is CRDC's policy to minimise the number of surveys sent to growers in any one year, with preference given to the annual CRDC-supported Cotton Grower Survey.

Data from the CRDC database is only provided to the contracted researcher conducting the Cotton Grower Survey, under strict confidentiality and usability guidelines. Data from the database will not be provided to any other researcher.

All other researchers wishing to have a survey sent out to CRDC's database must work with the Cotton Grower Survey researcher to include their survey questions in this survey.

If it is not possible to include the requested survey questions in the Cotton Grower Survey – for example, if the survey is too extensive or must be conducted at a different seasonal time – then CRDC will consider a request from a researcher to send a survey out on their behalf.

CRDC's position is to support up to two such requests per financial year, based on a first in, first assessed basis, and only after attempts have been made to include the questions in the Cotton Grower Survey. Surveys will only be sent on behalf of CRDC-supported researchers, and only those who have specified the need to survey in their approved Full Research Proposal.

# Glossary

The following terms are frequently used by CRDC in its application forms or in planning and reporting processes. If a term is not listed, and you require clarification, please contact the CRDC Project Administration team.

ABN	Australian Business Number. Provided by the Australian Tax Office (ATO) for Australian residents and corporations only. Consult ATO for the appropriate usage of this identifier.
Aim	The purpose or intention of a research project.
Commercialisation or Commercialise	In relation to IP any exploitation of the IP for financial gain and the term commercialised will have a corresponding meaning.
Intellectual Property 'IP'	All present and future rights conferred by statute, common law or equity in or in relation to copyright, trademarks, designs, patents, circuit layouts, plant varieties, business and domain names and inventions, trade secrets, know how, confidential information and other results of intellectual activity in the industrial, commercial, scientific, literary or artistic fields whether or not registrable, registered or patentable and whether or not created in Australia or elsewhere, but does not include Moral Rights, and all other intellectual property as defined in article 2 of the Convention establishing the World Intellectual Property Organisation 1967.
Major capital Item	An item of value greater than \$10,000.
Milestone	Progressive achievement within a research project; a marker of progress towards achieving the direct aims of a project.
Out of session	An urgent request for funding that is not submitted in the annual competitive funding round.
Outcome	The objective and anticipated outcomes of a project or scholarship as specified in the relevant Full Research Proposal.
Output technology	The results or achievements of a research, development or transfer project or program. Can be influenced but not forced or controlled.
Performance indicator	A way of measuring success towards meeting the aims of a project.
Research project	Research, development and extension project described in a project approval.

## For more information

For more information or to discuss any element of the Researchers' Handbook, please contact CRDC's Innovation or Project Administration team on 02 6792 4088 or via [research@crdc.com.au](mailto:research@crdc.com.au).

