Software Solutions

QCIF's Software Solutions team provides a comprehensive range of software development and integration services to support research conducted at QCIF's Member universities, national research institutions and facilities, government departments and corporations, and industry.

The Software Solutions team provide expertise in:

SOFTWARE PROJECT ACTIVITIES

- Metadata & research data management
- Systems integration & testing
- Proof of concept development
- Software platform hosting
- Requirements gathering & analysis
- Project management

SOFTWARE DEVELOPMENT & TECHNOLOGY

- Server side: Python, JavaScript (Node.JS), Java (Spring & Grails)
- Client side: HTML, CSS, JavaScript (Angular & Sails)
- Databasing: SQL (PostgreSQL & MYSQL), Mongo
- Cloud computing: Nectar, AWS, Google Cloud, Azure, Terraform

Assisting Researchers through Software Solutions

Who we are

QCIF's Software Solutions team consists of software engineers, business analysts and project management professionals, as well as metadata and system integration specialists.

The team provide a comprehensive range of software development and integration services to QCIF's Member universities, national research institutions and facilities, government departments and corporations, and industry.

Coming from varied backgrounds across private, government, education and research sectors, the Software Solutions staff have a breadth of knowledge and experience to draw on when solving problems.
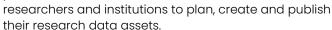
What we do

The team can rapidly scope and cost client projects and use Agile or blended methodologies to deliver project outcomes that meet expectations of quality, time and budget.

The team can also assist researchers by converting research into Proof of Concept as part of a path towards commercialisation.

QCIF provides managed hosting of software platforms either on QCIF's own secure cloud infrastructure or using commercial public cloud infrastructure, while integrating with other institutional systems, including identity management. This provides customers with a managed solution as an alternative to on-premise self-management, or in-cloud self-management, thus reducing customer costs and administration overheads.

Data Management

ReDBox 2.0 is an open-source research data management platform that assists researchers and institutions to plan, create and publish their research data assets.

ReDBox 2.0 helps data custodians to meet institutional data management policies, applying the requirements of the Australian Code for the Responsible Conduct of Research, and publishing to Research Data Australia, the national research data discovery system.

QCIF leads the ReDBox 2.0 development initiative and provides support services to subscribing institutions and the ReDBox community.

ReDBox 2.0 provides a range of features:

> Easy-to-use workflow and data entry forms
> Creation of a variety of metadata formats
> An OAI-PMH service for feeding collection metadata to various aggregators
> Integration with systems such as institutional repositories.

Visit the QCIF website for more information: qcif.edu.au/services/software-solutions

About QCIF

QCIF provides data-intensive eResearch infrastructure, services and training to accelerate research and innovation.

Members

THE UNIVERSITY OF QUEENSLAND AUSTRALIA

JCU JAMES COOK UNIVERSITY AUSTRALIA

Griffith UNIVERSITY Queensland, Australia

CQUniversity AUSTRALIA

University of Southern Queensland

QUT

University of the Sunshine Coast Australia

Supported by

A R D C Australian Research Data Commons

BIOPLATFORMS AUSTRALIA

NCRIS National Research Infrastructure for Australia An Australian Government Initiative

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