

Introduction

Intersect provides professionally developed and operated services, for its members and the wider research community. Services are targeted at enhancing the capability (skills) and capacity (resources) of institutions, disciplines and research groups.

Intersect works closely with member service providers such as university IT departments and libraries. Services are also delivered with support from the various national programs including ANDS, NCI, AARNet and the AAF.

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INTERSECT

Services Portfolio

Intersect is the eResearch service provider for NSW and delivers a range of projects and services to its members and to the wider research community.

Intersect

Consultation & Advice

Researcher Engagement

eResearch Analysts engage directly with researchers to assist across eResearch areas of collaboration, computing, data management and domain-specific tools.

Requirements Analysis

eResearch and business analysts work with researchers to determine which of their research bottlenecks can be addressed by the application of information technology, and how to best address those bottlenecks.

HPC Advice and Support

Our in-house HPC specialist works with researchers to troubleshoot and configure existing tools to work on our HPC infrastructure, as well as to help them design their experiments to make best use of the facilities.

Project Conceptualisation

eResearch analysts assist in taking a project from the concept phase to a formal description and plan, suitable for submission to grant or infrastructure funding bodies.



Services

Professional Services

Intersect employs a team of approximately 30 professional staff, including software engineers, test engineers, UI designers and project managers. This provides significant capacity and flexibility to deliver both projects and professional services to our members.

Skilled Staff

Intersect can provide staff to be managed locally at institutions. This allows research groups to cut down on recruitment time, fund partial positions, and to establish continuity of skills and experience. We provide UI designers, business analysts, software engineers and test engineers under both short- and long-term arrangements.

Software Development

Our engineers deliver bespoke software solutions to researchers, ranging from two-week interactive websites to multi-person-year infrastructure development and integration projects.

Technology Recommendations

Intersect eResearch analysts endorse and support specific tools, based on the experience of the analysts and the researchers with whom they engage.

Project Planning Management

Our project managers run projects on behalf of our members, in addition to managing the projects carried out by Intersect.

Training

eResearch analysts develop and deliver training material, customised to the needs of the audience, such as HPC training courses, machine learning, data management, and Google's 'Refine' analysis package.

Portfolio

Hosted Infrastructure Services

Virtual Machines

Our operations staff work with researchers delivering standard tools including wikis, version control and issue tracking. This service is often used in conjunction with software development, providing a path to integrate delivered software within a university's internal infrastructure.

Data Storage

Intersect currently has a modest capacity to host research data and this will be expanded in the near future.

High Performance Computing

Intersect provides access to both State and national high performance computing facilities. Large requests are handled through our bi-annual resource allocation process, and smaller requests on an ad-hoc basis.

