RCI: Research Cyberinfrastructure

Create... Share... Discover

RCI is a UCSD-sponsored program that offers campus researchers facilities, storage, data curation, computing, and networking to facilitate their research using shared cyberinfrastructure services across campus.

The RCI program is designed to provide cost-effective, reliable services which can be utilized by UCSD principal investigators in their current research efforts and incorporated in proposals for future research. In general, these services are available to researchers at a reduced cost, supplemented by the RCI program.

RCI has a number of services which are described in more detail via the links below. Some of these services are already available now in production, while other services are in pilot phase to best determine researcher requirements and appropriate business models.

RCI Services

CENTRALIZED STORAGE
Centrally administered disk storage featuring high performance, accessibility, reliability, and scalability.

COMPUTING
High-performance computing with fast interconnect, large memory options, and high I/O bandwidth for data analysis.

NETWORKING
An uncongested, leading-edge network that facilitates research collaborations, data exchanges, and access to the colocation facility.

COLOCATION SERVICES
Energy-efficient, centrally managed datacenter space for hosting computer equipment and related components.

DATA CURATION
Consulting services that help researchers with data management plans and long-term curation of research data.

TECHNICAL EXPERTISE
Human expertise to optimize utilization of RCI services in the context of individual research projects.
Research Data Management

Overview

Data Management Plans

Data Storage and Preservation

Data Sharing and Re-Use

Data Documentation

Data Publication

Campus Resources

More Information

Faculty Survey Results

Researcher Interviews

Creating Data Management Plans

The DMP Tool can be used to prepare data management plans required by specific funding agencies.

Click the Get Started! button, select Emory University from the pull-down menu, enter your Emory Network ID and password, and create a new plan. The tool will walk you through each section, allowing you to save and revisit your plans.

Benefits of Research Data Management

Organizing, preserving, and sharing data will . . .

- Improve data integrity.
- Prevent data loss due to workforce turnover or hardware/software transitions.
- Avoid unnecessary duplication of research efforts.
- Help validate research findings.
- Enhance the visibility of a researcher's work.
- Lead to repurposing of data beyond its original intended use.
- Ensure that the results of publicly-funded research become public property.

Research Data Lifecycle

- Creating Data
- Processing Data
- Re-using Data
- Preserving Data
- Giving Access to Data
- Analysing Data
- Preserving Data

Research Data Management at Emory

Documentation of developments supporting research data management at Emory University Libraries:

- Exploring Research Data Management
- Developments in Research Data Management Support

Research Data Management

Many funding agencies, including the National Science Foundation (NSF), the National Institutes of Health (NIH), and the National Endowment for the Humanities (NEH), require a data management plan as a component of grant applications. This requirement encourages researchers to consider in greater detail how their data will be preserved and shared.

Depending on the particular research community, data can include spreadsheets, images, videos, audio files, text files, models, computer software and code, patient records, interview transcripts, survey results, field/lab notes, and physical objects such as artifacts and samples.

Research Data Management at Emory University

Last Updated: Jun 18, 2013
URL: http://guides.main.library.emory.edu/datamgmt
Datapoints: The RDS Blog

**DMPTool Webinar Series Continues** DMPTool Webinar Series Brown Bag Join us for a ~15 part webinar series on the Data Management Planning Tool, DMPTool, from the California Digital Library. This series will introduce the tool, discuss …

**VIVO Webinar Series** Overview of VIVO What is VIVO with Brian Lowe, Cornell University Implementation with Jon Corson-Rikert, Cornell University Future Directions with Dean Kraft, Cornell University Slides from the presen …

**LabKey Server** LabKey Server is an open source data management platform designed for organizing and managing data from large-scale research; for example, data from thousands of samples and/or subjects. It provides a …

**Electronic Lab Notebooks** What are they? Electronic Lab Notebooks (ELNs) are software counterparts to paper lab notebooks. Although the name suggests a physical notebook device, ELNs are actually just software that runs on a c …

Data Management Plan

For NSF, NIH, IMLS grant application
Or for any research project
Contact us now!