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

- **Colocation Services**
  - Energy-efficient, centrally managed datacenter space for hosting computer equipment and related components

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

- **Data Curation**
  - Consulting services that help researchers with data management plans and long-term curation of research data

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

- **Technical Expertise**
  - Human expertise to optimize utilization of RCI services in the context of individual research projects
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
- Preserving Data
- Analysing Data
- Accessing Data
- Re-using Data

Preserving data

- migrate data to test format
- migrate data to suitable medium
- back-up and store data
- create metadata and documentation
- archive data
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 …

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

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ICPSR Updates its Data Management & Curation Site

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