

Appendix B: Learning Objectives

Roundtable 1

Massachusetts Green High Performance Computing Center Tour

1. Tour a major computational center that serves the growing research computing needs of five of the most research-intensive universities in Massachusetts.
2. Understand the design and daily operations for maintaining the data center, particularly the use of location (near a local hydroelectric plant) and energy conservation (water cooling and heat containment).
3. Explore the areas for collaboration and the communities utilizing the center.

Organizational structures for research data management (RDM) services at our institutions

1. To bring together a “Community of Practice” (STEM librarians who are actively engaging in planning or implementing RDM services) to examine organizational structures internal and external to the library that impact library research data management services.
2. To review and discuss individual attendees’ input about how organizational structures at their workplaces impact RDM services.
3. To provide a forum for sharing information and asking questions about organizational structures and how they impact delivery of library research data management services.
4. To record and report the ideas shared during table discussions about the relationship between library RDM services and institutional organizational structure.
5. To develop recommendations for future discussion or research regarding RDM collaborations.

Roundtable 2

Data Tools

1. Participants will develop a better understanding about the sequence of the research data cycle.
2. Participants will become more familiar with key open source tools that may be used by researchers in the management of their research data.
3. Participants will be better able to converse with researchers about their data management needs.

Engaging faculty and graduate student researchers at our institutions

1. To bring together a “Community of Practice” (librarians who are actively engaging in planning or implementing RDM services) to examine how to engage faculty and graduate student researchers in library research data management services.
2. To review and discuss individual attendees’ input about how faculty and graduate student researchers participation impact the development of RDM services.
3. To provide a forum for sharing information and asking questions about faculty and graduate student researchers and how they impact delivery of library RDM services
4. To record and report the ideas shared during table discussions about the relationship between library RDM services and faculty and graduate student researchers.
5. To develop recommendations for future discussion or research regarding RDM collaborations.

Roundtable 3

Open Science Framework

1. Gain a basic understanding about the Open Science Framework.
2. Learn how researchers are using the Open Science Framework.
3. Understand how librarians can support researchers using the Open Science Framework.
4. Gain a basic understanding of the typical flowchart for most common procedures.

One-Shot instruction sessions for data management and sharing of related anecdotes

1. Share topics included in one-shot instruction.
2. Learn about structuring of RDM instruction sessions.
3. Share resources used for developing workshop content.
4. Hear about timing and duration of one-shot sessions.
5. Understanding of the techniques that can be used to convey information (e.g. active-learning, lecture, etc.).
6. Share instruction materials such as handouts or slides used for teaching (related to techniques).
7. Gain an understanding about target audiences for one-shot instructions sessions.
8. Discuss and develop outreach techniques/advertising strategies for getting the word out about sessions.

Roundtable 4

Data Visualization

1. Gain a basic understanding of useful visualization tools and potential types of services to offer.
2. Explore how the library can be associated with data visualization & services.
3. Discuss where librarians can incorporate data visualization into their services.
4. Learn how to advocate for RDM best practices along with data visualization.
5. Provide an example of a data visualization lab on a university campus and how they are collaborating with other campus organizations/departments.

Planning and advertising/marketing strategies for data management events

1. Share information about types of events and topics covered.
2. Gain an understanding of how to communicate with event demographics and target populations.
3. Discuss and reflect on successful and unsuccessful events.
4. Explore collaboration opportunities on campus or with other institutions.
5. Share information about how we are evaluating events and event materials.
6. Share strategies for outreach efforts to promote and advertise events.