



Tools & Techniques for Creating and Delivering Research Support Services

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ABSTRACT

Research support services have become increasingly important in contemporary academic and research settings, empowering researchers to achieve excellence in their scholarly undertakings. The present paper aims to demonstrate techniques and tools that can be implemented to design and provide high-quality research support services. The article will explore how digital resources such as Library Management Systems, databases, discovery tools, reference management software, plagiarism detectors, research data management tools, and bibliometric analysis applications can facilitate research processes and promote scholarly communications. In addition, the paper will review strategies such as information literacy programmes, research consultations, current awareness services, selective dissemination of information, virtual reference services, and scholarly communication support to demonstrate how they can be utilized to offer superior research support services. The study will highlight the significance of collaboration between librarians and academics in providing effective research support services. While the paper will acknowledge the challenges that hinder optimal research support service delivery, it will demonstrate that embracing innovative measures can enhance the provision of research support services, ultimately promoting research excellence and institutional development in the digital age.

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Introduction

Research is key to new ideas, learning, and making smart choices. In our digital world, researchers need more than just books and articles. They need help with every step of their work. Research support services are specialized help offered by libraries, schools, and experts. They assist researchers in finding, checking, organizing, managing, sharing, and keeping scholarly information safe. This kind of help makes research better, faster, and more impactful by providing expert advice and the right technology.

As digital information has exploded, research support has moved beyond just answering questions. Now, it's about using technology to help. Libraries now help with searching for articles, managing citations, handling research data, checking for plagiarism, dealing with scholarly publishing, analyzing research metrics, and publishing work openly. By using modern tools and new methods, institutions can offer research support that's tailored to individual needs, efficient, and easy to access. This article looks at the main tools and methods used to build and deliver research support services and emphasizes how important they are for encouraging great research.

Meaning of Research Support Services

Research support services refer to a range of professional services designed to assist researchers at every stage of the research lifecycle. These services include identifying research topics, conducting literature reviews, accessing scholarly resources, managing research data, organizing references, ensuring academic integrity, selecting suitable journals for publication, measuring research impact, and preserving research outputs. The primary objective is to help researchers conduct reliable, ethical, and impactful research while saving time and improving productivity.

Tools for Creating and Delivering Research Support Services

1. Library Management Systems

Tools like Koha, Evergreen, and LibSys help libraries manage their stuff. They take care of tasks like organizing books, checking them in and out, ordering new items, handling journals, and keeping user records. Thanks to these systems, people can search the library catalog online, reserve books, renew loans, and access digital materials easily. Having a good library management system is key for supporting research today.

2. Discovery Services

Discovery services offer one place to search for all sorts of information, like books, articles, papers, and online databases. Popular options include EBSCO Discovery Service, Primo, and Summon. These tools



make finding research much simpler by pulling everything together into a single interface, so researchers can find what they need fast.

3. Electronic Databases

Access to scholarly databases is essential for effective research support because they provide access to reliable, peer-reviewed academic resources. Databases such as Scopus, Web of Science, JSTOR, Science Direct, Springer Link, and Pub Med offer a vast collection of journal articles, conference papers, books, reviews, and research reports across various disciplines. These platforms ensure that researchers can access accurate, credible, and up-to-date information, helping them build strong evidence for their studies. They also include advanced search tools, citation tracking, and indexing features, making it easier to find relevant literature, evaluate research quality, and stay informed about the latest developments in their field.

4. Reference Management Software

Reference management tools help researchers keep their citations organized and automatically create bibliographies. Software like Zotero, Mendeley, End Note, and Ref Works lets researchers save references, add notes to PDFs, work with others, and format citations in styles like APA, MLA, Chicago, and Harvard. They cut down on mistakes and save a lot of time when writing papers.

5. Research Data Management Tools

Today's research produces huge amounts of data that need to be stored, managed, and shared properly. Tools for research data management, such as DMP Tool, Zenodo, Figshare, Dryad, and institutional repositories, help researchers organize, save, and share their data. These platforms help meet requirements from funding agencies and encourage data transparency and the ability to repeat research findings.

6. Plagiarism Detection Software

Maintaining honesty and originality is essential in research. Plagiarism detection software such as Turnitin, iThenticate, and Ouriginal helps researchers ensure their work is free from unintentional copying. These tools compare research papers with millions of published articles, books, websites, and other academic sources to identify matching text and similarities. By highlighting potential plagiarism, they allow authors to revise and properly cite their sources before submission or publication. This process promotes academic integrity, protects intellectual property, and enhances the credibility of research. Using plagiarism



detection tools ensures that research remains ethical, authentic, and suitable for publication in scholarly journals.

7. Bibliometric and Research Impact Tools

These tools help measure how influential and visible research work is. Sites like Google Scholar, Scopus, Web of Science, Dimensions, and ORCID show how many times a work has been cited, the h-index, author information, who is collaborating, and other publication data. Researchers use these to check their performance and find important papers.

8. Institutional Repositories

Institutional repositories are digital platforms where universities and research institutions store, preserve, and share their scholarly output. They include theses, dissertations, journal articles, conference papers, research data, and other academic works. These repositories provide open access to research, making it easier for students, researchers, and the public to discover and use valuable knowledge. They also increase the visibility and impact of an institution's research while ensuring long-term digital preservation. By promoting wider dissemination of academic work, institutional repositories support collaboration, improve knowledge sharing, and contribute to the advancement of research and innovation across various disciplines.

9. Collaboration and Communication Tools

Researchers often work with people from different universities and countries. Tools like Google Workspace, Microsoft Teams, Zoom, Slack, and Overleaf help them talk to each other, share documents, write together, and have online meetings. These tools are useful for teamwork and for research that involves different fields.

10. Artificial Intelligence (AI) Tools

Artificial intelligence (AI) has become an important tool for supporting research by improving efficiency and productivity. AI-powered applications help researchers discover relevant literature, summarize lengthy articles, improve language and grammar, generate citations, and organize research data. They can also assist with brainstorming ideas, identifying trends, and analyzing large datasets. By automating repetitive tasks, AI allows researchers to focus more on critical thinking, interpretation, and innovation. While AI enhances the research process, it should be used responsibly and ethically, with proper



verification of information. Overall, AI saves time, improves research quality, and supports more effective academic work.

Techniques for Delivering Research Support Services

1. Information Literacy Training

Libraries hold workshops, seminars, online sessions, and orientations. These teach researchers how to search databases, judge information sources, handle references, and not plagiarize. Learning these skills helps researchers use information resources better.

2. Individual Research Consultation

Research librarians provide personalized consultation services to support researchers throughout the research process. Through one-on-one meetings, they assist with literature searching, database navigation, citation management, journal selection, research metrics, and publication planning. They also offer guidance on using research tools, avoiding plagiarism, and accessing scholarly resources effectively. This individualized support helps researchers improve the quality and efficiency of their work while saving valuable time. By addressing specific research challenges and offering expert advice, research librarians enhance researchers' skills, confidence, and decision-making, ultimately contributing to successful research outcomes and the effective dissemination of scholarly knowledge.

3. Subject-Specific Research Guides

Libraries develop subject-specific research guides to help researchers access relevant resources efficiently. These guides may include Lib Guides, online tutorials, FAQs, research manuals, and curated lists of databases, journals, books, and websites related to specific academic disciplines. They provide step-by-step instructions on finding, evaluating, and using information effectively. By offering organized and easy-to-use resources, these guides enable researchers to work independently, save time, and improve the quality of their research. Subject guides also support information literacy, helping users develop strong research skills while ensuring they can locate accurate, reliable, and discipline-specific information with confidence.

4. Virtual Research Support

Digital technologies have expanded research support beyond the physical library, making assistance accessible anytime and anywhere. Researchers can receive help through email, live chat, video



conferencing, online help desks, and social media platforms. These virtual services provide guidance on literature searches, database access, citation management, research tools, and other academic needs without requiring an in-person visit. Remote support is especially valuable for distance learners, busy professionals, and researchers working across different locations. By offering convenient and flexible access to expert assistance, virtual research support services improve efficiency, enhance user satisfaction, and ensure continuous access to quality research guidance.

5. Current Awareness Services (CAS)

Current Awareness Services (CAS) help researchers stay informed about the latest developments in their fields. Libraries provide these services through email alerts, newsletters, RSS feeds, database notifications, and other digital communication channels. Researchers receive regular updates on newly published journal articles, books, conference announcements, funding opportunities, policy changes, and other relevant academic information. These timely notifications save researchers time by reducing the need for repeated manual searches and ensuring they never miss important developments. Current Awareness Services support continuous learning, enhance research productivity, and enable researchers to remain up to date with emerging trends and advancements in their disciplines.

6. Selective Dissemination of Information (SDI)

Selective Dissemination of Information (SDI) is a personalized library service that provides researchers with information tailored to their specific research interests. Librarians create user profiles based on research topics and regularly monitor new publications, journal articles, conference papers, and other scholarly resources. Relevant information is then sent directly to researchers, ensuring they receive only the most useful and up-to-date materials. This targeted approach saves time, reduces the effort required to search for information, and keeps researchers informed about recent developments in their field. SDI enhances research efficiency, supports informed decision-making, and improves the overall quality of research outcomes.

7. Research Data Management Support

Libraries play a vital role in supporting research data management by helping researchers organize, preserve, and share their data effectively. They assist in creating data management plans, organizing research files, selecting appropriate metadata standards, ensuring secure data storage, and complying with institutional and funding agency requirements. Libraries also provide guidance on data documentation, long-term preservation, and responsible data sharing through trusted repositories. These services improve data



accessibility, transparency, and reusability while protecting sensitive information. Effective research data management enhances research quality, promotes collaboration, supports reproducibility, and ensures that valuable research data remain available for future use..

8. Scholarly Publishing Support

Research publication support services help researchers navigate the process of sharing their work effectively. Libraries provide guidance on selecting suitable journals, identifying trustworthy publishers, understanding copyright regulations, and following open-access publishing requirements. Librarians also help researchers avoid predatory journals and improve the visibility and impact of their publications through strategies such as author profiles, research identifiers, and citation management. These services support informed publishing decisions and ensure that research reaches the appropriate audience. By offering expert advice throughout the publication process, libraries help researchers increase the credibility, accessibility, and overall impact of their scholarly contributions.

9. Bibliometric and Citation Support

Research support services help scholars manage and evaluate their academic impact. Librarians assist researchers in creating ORCID profiles, tracking citations, measuring research impact through various metrics, and preparing reports for promotions, grant applications, and institutional evaluations. These services help researchers maintain accurate publication records and demonstrate the influence of their work. By providing guidance on research visibility and assessment tools, libraries support informed decision-making, improve recognition of scholarly contributions, and help researchers effectively communicate their achievements to academic institutions and funding organizations.

10. Collaboration with Academic Departments

Research support becomes more effective when librarians collaborate closely with faculty members, supervisors, and academic departments. Through partnerships, they can organize joint workshops, research clinics, training sessions, and project meetings that address the specific needs of researchers. These collaborative efforts encourage interdisciplinary research, improve access to resources, and strengthen research skills across the institution. By working together, librarians and academic staff create a supportive research environment that promotes innovation, knowledge sharing, and academic excellence. Such cooperation helps researchers overcome challenges, use resources effectively, and achieve better outcomes throughout the research process.



Benefits of Research Support Services

Research support services offer several benefits to researchers and institutions. They enhance the quality of research and its credibility by providing access to reliable resources. These services save time for researchers by offering search options and assistance. They encourage ethical research practices such as proper citation and plagiarism check. Research support services increase the visibility of research findings through repositories and publications. Additionally, they facilitate data management, leading to the preservation of valuable research outputs. Finally, research support services promote collaboration, research publications, citation impact, and institutional reputation, and innovation.

Challenges in Delivering Research Support Services

Despite the progress made in this field, there are still some challenges. One of the challenges is that a number of institutions cannot afford the costly databases and programs. The other challenge is that technology is evolving therefore there is a need to constantly train the staff on the latest developments. Additionally, a lot of researchers have diverse levels of technology proficiency and therefore it becomes necessary to educate them. Copyrights, data privacy, and predatory journals are also a concern in this field. Finally, there is a need to keep up with the changing demands of research by providing relevant services.

Conclusion

Research support services are critical to the development of education and research institutions. Through the use of modern technology and professional competence, libraries and information centres offer a wide range of support services and resources that facilitate research. Library management systems, discovery tools, electronic resources, reference management systems, plagiarism software, research data management, and bibliometric tools are some of the resources used to support research activities. Additionally, information literacy, research consultations, virtual assistance, current awareness, scholarly communication, and collaborative partnerships are mechanisms that support services offer to help scholars conduct their research effectively. The research support service will continue to develop as research becomes more collaborative, data-intensive, and digital.

References

1. Corral, S. (2014). Designing libraries for research support: From supporting researchers to managing research information. *Journal of Library and Information Services in Distance Learning*, 8(1–2), 5–19.



2. Cox, A. M., Kennan, M. A., Lyon, L., & Pinfield, S. (2017). Developments in research data management in academic libraries: Towards an understanding of research support services. *Journal of the Association for Information Science and Technology*, 68(9), 2182–2200.
3. Tenopir, C., Birch, B., & Allard, S. (2012). Academic libraries and research data services: Current practices and plans for the future. *Association of College and Research Libraries (ACRL)*.
4. Research Data Management Toolkit. (2021). *Digital Curation Centre (DCC): Research Data Management Resources*. Edinburgh: Digital Curation Centre.
5. Pinfield, S., Cox, A. M., & Smith, J. (2014). Research data management and libraries: Relationships, activities, drivers and influences. *PLoS ONE*, 9(12), e114734.
6. ACRL. (2016). *Framework for Information Literacy for Higher Education*. Chicago: Association of College and Research Libraries.
7. Okerson, A., & O'Donnell, J. J. (Eds.). (2010). *Scholarly Journals at the Crossroads: A Subversive Proposal for Electronic Publishing*. Washington, DC: Association of Research Libraries.
8. Ball, A. (2014). *Research Data Management and Libraries: Current Activities and Future Challenges*. London: Jisc.
9. Corral, S., Kennan, M. A., & Afzal, W. (2013). Bibliometrics and research data management services: Emerging roles for academic libraries. *Library Management*, 34(6/7), 439–452.
10. Mering, M. (2017). Bibliometrics as a tool for evaluating research performance: The role of academic libraries. *Library Hi Tech News*, 34(6), 1–5.
11. Association of Research Libraries. (2019). *The Changing Research Library: Supporting Researchers in the Digital Age*. Washington, DC: ARL.
12. Borgman, C. L. (2015). *Big Data, Little Data, No Data: Scholarship in the Networked World*. Cambridge, MA: MIT Press.