



November 9, 2018

Memorandum

To: Dawn M. Elliott
Blue and Gold Distinguished Professor and Chair
Department of Biomedical Engineering

From: Trevor A. Dawes
Vice Provost for Libraries and Museums
and May Morris University Librarian

I am responding to your request to supply information about the capability of the University of Delaware Library, Museums and Press to support permanent status for the PhD in Biomedical Engineering.

The existing online and print collections of the University of Delaware Library, Museums and Press which are strong in the sciences and related interdisciplinary areas, are currently able to support this program. However, no additional funding is available for new resources. Enclosed is a description of collections, resources and services available for this purpose.

I would be pleased to respond to any questions.

/nb

Enclosure

c: Department of Biomedical Engineering
Michelle Pergeorelis, Administrative Assistant II
Ryan Zurakowski, Associate Professor and Graduate Director

University of Delaware Library, Museums and Press
Susan A. Davi, Associate Librarian and Head, Collections and Electronic
Resources Management Department
M. Dina Giambi, Associate University Librarian for Budget and Collections
Sarah E. Katz, Senior Assistant Librarian, Reference and Instructional Services Department
Sabine Lanteri, Senior Assistant Librarian and Science Liaison Librarian,
Reference and Instructional Services Department
Thomas Melvin, Librarian, Reference and Instructional Services Department
Sandra Millard, Deputy University Librarian and Associate University Librarian for
Public Services and Outreach
Carol Rudisell, Librarian and Head, Reference and Instructional Services Department
William S. Simpson, Associate Librarian and Institutional Repository Librarian,
Reference and Instructional Services Department

Faculty Senate
Karren Helsel-Spry, Administrative Assistant IV



University of Delaware Library

VICE PROVOST FOR LIBRARIES AND MUSEUMS
AND MAY MORRIS UNIVERSITY LIBRARIAN

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Report on Library Services and Collections in Support of the PhD in Biomedical Engineering

General Description

The University of Delaware Library, Museums and Press includes the Hugh M. Morris Library, where the main collection is housed; two branch libraries located on the Newark campus, the Chemistry Library and the Physics Library; and a third branch library, the Marine Studies Library, located in Lewes, Delaware. The Library collections parallel the University's academic interests and support all disciplines.

Databases, full-text electronic journals and electronic books, books, periodicals, microforms, government publications, maps, manuscripts and media provide a major academic resource for the University of Delaware, the surrounding community, the state of Delaware and the nation. Library staff members provide a wide range of services.

The University of Delaware Library, Museums and Press is a U.S. depository library and a U.S. patent depository library and contains the complete file of every patent issued by the U.S. Patent and Trademark Office (USPTO).

The online catalog, DELCAT Discovery, provides access to millions of items by author, title, subject and keyword.

Library collections number over 2,720,000 and are broadly based and comprehensive. In 2016/2017, the Library Web <library.udel.edu/> received over 3,900,000 page views.

Specific Support for the PhD in Biomedical Engineering

The Library's collections are strong and are able to support this graduate program. The graduate programs in biomedical engineering are directly supported by the Library's strong collections in medical sciences, physiology, kinesiology, nutrition, nursing, health sciences, bioinformatics, biological sciences, chemistry, and all areas of engineering. The collections in these areas are excellent and continue to grow.

An experienced librarian, Sabine Lanteri (slanteri@udel.edu), Senior Assistant Librarian, Reference and Instructional Services Department, serves as the Library liaison to the faculty in the Department of Biomedical Engineering. She also serves of Library liaison to the Department

of Biological Sciences, Department of Chemistry & Biochemistry, and Department of Chemical & Biomolecular Engineering. As Library liaison, Ms. Lanteri works with the Department of Biomedical Engineering to:

- Further develop Library collections, both print and electronic to support the teaching, learning and research needs of the department
- Provide research support for faculty and students in a consultation setting
- Provide instruction in a classroom setting
- Serve as a resource for the information needs of the department as they relate to the Library, Scholarly Communication, Open Access and other topics

Three other science librarians have considerable expertise in related subject areas and can provide additional specialized services, as needed. They are:

- Sarah Katz (sekatz@udel.edu) – Health Sciences
- Tom Melvin (tmel@udel.edu) – Electrical & Computer Engineering, Mechanical Engineering, Patents
- William Simpson (wsimpson@udel.edu) – Computer & Information Sciences, Mathematical Sciences

More than 200 research guides <guides.lib.udel.edu/> in all subject areas have been developed and are maintained by librarian liaisons. These research guides describe library resources and assist students in the research process. These guides introduce students to a wide array of useful resources including databases, eJournals, eBooks, reference materials, visual material and more. The librarians mentioned above are also available to work with faculty to develop research guides for specific courses within this program.

The Library subscribes to more than 400 online databases <library.udel.edu/databases/> which support research in all areas. Among the most important databases for the study and research of biomedical engineering are: *PubMed*, *Scopus*, *Web of Science*, *BIOSIS Citation Index*, *SciFinder Scholar*, *Compendex*, *SPIE Digital Library*, and *National Center for Biotechnology Information (NCBI)*.

In addition to its extensive print-based collections, the Library provides access to more than 100,000 electronic journals <library.udel.edu/ejournals/> and more than 670,000 electronic books <library.udel.edu/ebooks/>. Within the Library's eJournal collection, the sciences are particularly strong, including almost all the journals published by Elsevier, Springer, Taylor & Francis, and Wiley as well as smaller publishers such as American Medical Association, BioMed Central, PubMed Central, Public Library of Science (PLoS), Nature, Institute of Physics, American Society for Mechanical Engineering, Annual Reviews, and Lippincott, Williams & Wilkins.

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Within the eBook collection, online access to almost all ebooks published by Springer, from 2005-present, is of particular importance. Other related eBooks are available from the NCBI Bookshelf, the Colloquium Digital library of Life Sciences, ProQuest Ebook Central, and EBSCOhost eBooks. *Knovel* and *Safari Tech Books* provide sci-tech reference data and ebooks on engineering and technology topics. The conference proceedings from major publishers such as ACM, ASTM, IEEE, Materials Research Society (MRS), SPIE, and Springer are also available online.

The Library also provides online access to *Bates' Visual Guide to Physical Examination*, the *LWW Health Library* (anatomical sciences and physical therapy sections), and *Primal Pictures*, "the world's most detailed 3D model of human anatomy online." Access to *JoVE Video Journal* and *JoVE Science Education* is also available. These resources may be useful to students in this program.

The Library subscribes to *RefWorks*, a web-based citation management tool that can be used with most databases. Access to *EndNote Online* via the Library's *Web of Science* subscription is also available.

The Library has strong collections of film and video <library.udel.edu/filmandvideo/> which support study and teaching in all subject areas.

The Library has a nationally recognized Student Multimedia Design Center <library.udel.edu/multimedia/> which provides access to equipment, software, and training related to the creation of multimedia projects. The Student Multimedia Design Center includes over 80 workstations, six studios, and two classrooms focused on multimedia creation. University of Delaware users also may borrow a wide variety of multimedia equipment. Through its Multimedia Literacy program, the Student Multimedia Design Center provides instructional support for faculty seeking to incorporate multimedia into their assignments.

The Library also maintains an Institutional Repository <udspace.udel.edu/>, which archives research reports, documents, and other resources produced by University of Delaware faculty and students.



Trevor A. Dawes
Vice Provost for Libraries and Museums
and May Morris University Librarian