



FACULTY RESEARCH RESOURCES

June 23, 2023

BYU LIBRARY

Library Administration Offices
2060 HBLL
801.422.2905
<https://lib.byu.edu>

The BYU Library provides a wide variety of support for university faculty, much of which stems from our vast academic collections (including many primary source materials in the L. Tom Perry Special Collections) that support both research and teaching. Faculty can request books, journals, and databases that the library doesn't currently own or license and they will be considered for purchase or licensing. (If appropriate, a trial of a suggested database may be arranged before a purchase or licensing decision is made.)

Information on other services for faculty can be found at https://guides.lib.byu.edu/faculty_services. Among the most popular services are:

- Information literacy instruction for specific classes or assignments
- The Research and Writing Center (in collaboration with University Writing)
- Research consultations with subject liaison librarians
(<https://lib.byu.edu/directory/#browse-by-subject>)
- Research guides in broad subject areas (<https://lib.byu.edu/guides/>)
- Creation of course-specific research guides (see examples at <https://lib.byu.edu/guides/#courseguides>)
- ScholarsArchive, the University's institutional repository to showcase faculty scholarship
(<https://scholarsarchive.byu.edu/>)
- Workshops on research data managements (e.g., using Git, writing regular expressions)

CENTER FOR COLLABORATIVE RESEARCH AND STATISTICAL CONSULTING

Statistical Consulting Center
2152F WVB
801.422.4505
<https://statistics.byu.edu/consulting-center-research>

The Center for Collaborative Research and Statistical Consulting offers statistical support to the university community while providing training to students in the Department of Statistics. The Center also promotes collaborative research between faculty members that lead to joint publications, both in the Department of Statistics and in other disciplines.

CENTER FOR LANGUAGE STUDIES

Center for Language Studies
3086 JFSB
801.422.1201
<https://cls.byu.edu>

The Center for Language Studies (CLS) promotes collaborative research and assists faculty members in their study of the complexities of language systems, language learning, and language translating, including research in language pedagogy, instructional design, proficiency assessment, and program evaluation. The Center's faculty provides consultation services on research design, assessment options, test development, and statistical analysis. Research may be conducted on formal or informal language learning environments, and it may be classroom-based or use the Language Science Laboratory resources located in the College of Humanities.

For access to the following resources, contact: Troy Cox 801-422-5755.

- A soundproof booth for phonology studies.
- Bi-directional video recording studios for analyzing ASL communications and the nonverbal components of other languages.
- An EEG (electroencephalography) that gives researchers the ability to make fine-grained recordings of the brain in action as it processes language.
- Eye-tracking equipment (SR Research Eyelink and Tobii) used to carry out in-depth research on cognitive and psycholinguistic processes in SLA and applied linguistics.
- Functional near infrared spectroscopy (fNIRS) units for researching interactions between language communication tasks and related brain functions.

CENTER FOR TEACHING & LEARNING (CTL)

Center for Teaching & Learning
3800 Harold B. Lee Library
801.422.8180
<https://ctl.byu.edu>

The mission of the Center for Teaching & Learning (CTL) is to assist faculty and administrators in improving student learning within the context of the BYU Mission and Aims. The CTL provides various services to support teaching and enhance student learning, including consultations with experienced teaching consultants, assistance with assessment and evaluation, and production and support of academic technology and multi-media tools to support learning.

For more information on how the CTL supports teaching and learning, visit our website at:
<https://ctl.byu.edu/>

CREATIVE WORKS (CW)

Creative Works
3760 HBL
801.422.5297
<https://cwo.byu.edu>

The general mission of the Creative Works Office is to commercialize creative works developed at the University. CW provides services to relieve the faculty of the burden of being extensively involved in the business aspects of the commercialization of their creative works. In close collaboration with the General Counsel's office, CW provides expertise in business relationships, negotiations, protection of intellectual property, agreements and contracts, entrepreneurship, and management. Liability protection for the institution and individual faculty members is afforded through careful review of each business arrangement and agreement. Intellectual property developed at BYU is protected through judicious use of copyrights and trademarks. Any revenue generated through CW is shared with the

developers and is utilized within the university community to support both continuing research projects and discretionary projects.

The Academic Mission of BYU and of individual faculty members are encouraged by the Creative Works Office through protection of academic freedom, promotion of research sponsorship, and dissemination of research accomplishments through commercialization for the mutual benefit of the academic and public communities.

ELECTRON MICROSCOPY FACILITY

Electron Microscopy Facility
115 MCDB
801.422.9953
<https://microscopy.byu.edu>

The BYU Electron Microscopy Facility supports the BYU research community by providing access to high-end scanning and transmission electron microscopy equipment (SEM / TEM) for BYU students, faculty, and staff.

Technical expertise is provided in the areas of SEM / TEM imaging and microanalysis, sample preparation, and training. This technical expertise is provided through consultation with researchers, basic on-demand equipment training, courses, imaging/analytical services, and sample preparation services.

Capabilities provided by the facility include imaging (SEM/TEM), chemical elemental analysis (Energy-Dispersive X-ray Analysis “EDXA”, and Electron Energy-Loss Spectroscopy “EELS”), micro/nano milling/patterning (Focused Ion Beam “FIB”), and others. For a full list of equipment and capabilities, please visit the facility website.

To access these services, please visit the [Electron Microscopy Facility](https://microscopy.byu.edu) website or email emlab@byu.edu.

FACULTY CENTER

Faculty Center
3770 Harold B. Lee Library
801.422.7419
<https://facultycenter.byu.edu>

The BYU Faculty Center supports the professional development of faculty throughout all stages of their academic career with a variety of programs and services. The Center’s programs and services reflect the following priorities:

- Assistance with early-career challenges and opportunities, including support for faculty new to BYU
- Support for the ongoing professional and personal development of mid- and late-career faculty
- Support for faculty serving in administrative roles
- Assistance with implementing BYU’s distinctive mission as an LDS church-sponsored university that is centered on the development of disciple-scholars.

The Faculty Center provides a number of sessions throughout each academic year on scholarship. They also sponsor Faculty Development Interdisciplinary Learning Groups on campus, providing seed money for approved groups and facilitators. You can learn more on resources for scholarship and research on their website: <https://facultycenter.byu.edu/scholarship-research>

FACULTY PUBLISHING SERVICE

Faculty Publishing Service
4096 JKB
byu.fps@gmail.com
<https://ling.byu.edu/faculty-publishing-service>

The Faculty Publishing Service provides help with any publishing needs, such as editing, proofreading, typesetting, and indexing. They assist BYU faculty and staff with a variety of publication and production tasks.

LABORATORY ANIMAL RESEARCH CENTER (LARC)

<https://larc.byu.edu>

University Attending Veterinarian (protocol consultation and animal welfare)	801-422-2262
Animal Resource Center Manager (facility and space management)	801-422-3979
Animal Resource Center Assistant Manager (animal care)	801-422-1229

The Laboratory Animal Research Center (LARC) and the vivariums are administratively part of the Research Administration Office (RAO). Any research or instructional use of laboratory animals must be reviewed and approved by the Institutional Animal Care and Use Committee (IACUC). In partnership with the IACUC, LARC monitors use of research animals to ensure compliance with applicable Federal, State and Local laws and guidelines as well as Institutional Policy. The LARC provides assistance, advice, and education to faculty, research staff, and students in order to facilitate research goals while maintaining regulatory compliance. LARC provides for the procurement, housing, health, and welfare of research animals housed in BYU facilities.

LARC's Mission is to:

- Provide quality care for all animals used at the University.
- Assist the faculty and their students in their mission of quality research with respect to the use of laboratory animals.
- Act as a resource center for faculty and their students on all issues relating to laboratory animals.
- Assist the University in meeting its goal of humane treatment of laboratory animals.

MAGNETIC RESONANCE IMAGING RESEARCH FACILITY (MRIRF)

MRI Research Facility
150 McDonald Building
801.422.9420
<https://mri.byu.edu/>

There are several imaging resources located in the MRIRF available for use. The imaging facility contains an MRI coil laboratory fully equipped with oscilloscopes, a network analyzer, signal generators, a full-size test bore/RF shield to simulate the MRI electrical environment, and other essential test and measurement equipment. In addition, the facility contains wet lab space with a fume hood, two neurological evaluation and behavioral testing rooms, ample preparation space immediately adjacent to the MRI scanner, and a microCT scanner appropriate for imaging small animals or small samples. The 3Tesla MRI scanner (installed in Fall 2022) is equipped with a full complement of coils and is capable of performing a full range of scan sequences including diffusion tensor imaging, functional MRI, structural MRI, and perfusion imaging. Users may be trained to operate the scanners on their own by Facility staff or may arrange for staff to assist with imaging data collection.

THE OFFICE OF DIGITAL HUMANITIES (ODH)

The Office of Digital Humanities
1163 JFSB
801.422.5360
<https://odh.byu.edu>

The Office of Digital Humanities provides technology support for research and pedagogy in humanities, foreign language learning, and related disciplines. For access to the following resources contact ODH at 801-422-5360:

- Specialized language learning and testing software in computer labs.
- Custom development of software, databases, and workflows for humanities research and teaching, including language learning.
- A high-fidelity recording studio for producing instructional and test materials. Computer labs and classrooms for teaching technology topics.
- Collaboration with faculty in humanities and related disciplines on the use of digital tools and methods, including WordCruncher software, for textual analysis.

PF MANUFACTURING SHOP

PF Manufacturing Shop
108 CTB
801.422.4570
<https://pf.byu.edu/transportation-and-manufacturing-services>
Contact: Therin Garrett, thering@byu.edu

The PF Manufacturing Shop is a prototyping service. We provide product development, prototype design, and fabrication & fabrication planning services. We have an in-house shop for most fabrication needs, and we can connect BYU faculty and students with off-campus machine shops and fabricators, and interface with these outside entities to have prototypes manufactured to your specifications. Work Orders for services at this facility can be submitted at: <https://pf.byu.edu/wo/request>

RESEARCH ADMINISTRATION OFFICE (RAO)

Research Administration Office
A-285 ASB
801.422.3841
<http://rao.byu.edu/>

The RAO's mission is to help the university administration encourage and support faculty, students, and staff in their research, creative activities, and other expressions of academic scholarship.

Faculty research proposal submissions are routed for internal approvals through the RAO via Kuali Research. All NIH, NSF (non-collaborative) and other grants.gov submitted proposals (i.e. DOE, USGS, EPA) are submitted System to System (S2S), meaning directly to the sponsor from Kuali Research. All other proposals, Non-System to System (Non-S2S) (i.e. Industry, Foundations, NASA, State/Local Government and other Federal sponsors that do not use grants.gov), will be submitted as directed by the sponsor.

The RAO houses three compliance committees responsible for managing and approving human subject, animal subject, and recombinant DNA research:

1. The Institutional Review Board (IRB) for human subjects is responsible for the protection of the rights and welfare of human subjects participating in all research administered on campus, or conducted elsewhere by University faculty, staff, or students. IRB members recognize ethical

research's dual burden to advance relevant knowledge while maintaining the integrity and respect of human participants. The University's human research protection program is based on three basic ethical principles: 1) respect for persons, 2) beneficence and 3) justice. The application of these principles is explained in the Belmont Report, issued in 1979 by the National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research.

2. The Institutional Animal Care and Use Committee (IACUC) oversees all aspects of BYU's animal care and use programs for teaching and research. The IACUC reviews all animal use protocols, ensures compliance with federal and state regulations, inspects animal facilities and laboratories, and oversees animal training and education programs. The IACUC serves as a resource to faculty, investigators, laboratory technicians, students, staff, and administrators and provides guidance for conducting all animal use procedures in accordance with the highest scientific, human, and ethical principles.
3. The Institutional Biosafety Committee (IBC) supervises the use of recombinant DNA and handles other biological safety and hazard issues in experiments conducted at the university in a Biosafety Level 2 Lab (BSL2) or a Biosafety Level 3 Lab (BSL3), such as constructing and handling DNA molecules in organisms. The IBC must review and approve all proposed experiments in advance before work can begin. The IBC has jurisdiction, regardless of the funding source or instructional nature of any recombinant DNA experiments.

RESEARCH DEVELOPMENT OFFICE (RDO)

Research Development Office
270 McDonald Building
801.422.0132
<http://researchdevelopment.byu.edu/>

The Research Development Office (RDO) supports faculty in finding and securing a sustainable level of funding to support their research and creative activities. RDO will assist faculty with: 1) creating strategies and utilizing specific tools for finding opportunities and funders; 2) preparing and writing of effective grant proposals; 3) advocating faculty and institutional capabilities to funding managers to attract extramural research funding. The RDO also manages interdisciplinary seed funding programs, limited submission opportunities, and coordinates with the Research Administration Office and college-based Research Development Officers to provide faculty with support throughout the pre-award proposal process.

TECHNOLOGY TRANSFER OFFICE (TTO)

Technology Transfer Office
3760 HBLL
801.422.6266
<https://techtransfer.byu.edu/>

BYU Technology Transfer protects and commercializes technologies invented by faculty at Brigham Young University. The office provides expertise in business relationships, negotiations, protection of intellectual property, marketing, license agreements, contracts, and entrepreneurship.

The primary purpose of TTO is to facilitate the transfer of university-developed technologies to the marketplace. This is done by protecting BYU intellectual property (usually through patents), and by subsequently licensing the protected intellectual properties to companies outside the university. Our TTO is consistently honored to be in the top three small offices in the United States.

