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.

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 eye-tracking lab for conducting reading and literacy studies.
- Functional near infrared spectroscopy (fNIRS) units for researching interactions between language communication tasks and related brain functions.
The mission of the CTL is to assist faculty in improving student learning in the context of the Aims of a BYU Education. The CTL provides a variety of services to support teaching and enhance student learning including consultations with experienced teaching consultants, assistance with assessment and evaluation, production of multi-media and on-line tools to support learning, and more!

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.

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
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.

### Faculty Publishing Service

**Faculty Publishing Service**  
4064 JFSB  
801.422.2937  
https://linguistics.byu.edu/faculty-publishing-service-getting-started/

### Harold B. Lee Library (HBLL)

The Harold B. Lee 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 consultation 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)

And the HBLL-created general guide for faculty https://guides.lib.byu.edu/faculty_services

### Laboratory Animal Research Center (LARC)

**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)**

There are several imaging resources located in the MRIRF available for use. Included are two neurological evaluation rooms, an animal/cadaver preparation room and a fully functional 3 T MRI machine. 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 rooms, ample preparation space immediately adjacent to the MRI scanner, and an MR physics laboratory.

The imaging facility has 2 high-power multi-core workstations (a 2.4GHz 12-core Xeon Mac Pro workstation with 64GB memory, and a 3.2GHz 6-core Xeon Linux workstation with 64GB memory), as well as a high-performance computing cluster consisting of 9 networked 64bit multi-core Linux computers with minimum processor speeds of 2.4GHz and 8GB of memory. A 12 TB RAID storage device is also available at the facility for use on this proposal. Multiple administrative and workstation PCs and several Mac workstations are also available for use in the various lab areas inside the imaging facility. All computers are connected via a gigabit local-area network and to the internet for international electronic communication. All data networking is carefully managed to ensure its security.

**MICROSCOPY LAB**

The Microscopy Microscopy Lab has many resources available for faculty research including Electron Backscatter Diffraction (EBSD on the Apreo or Helios), Cathodoluminescence (CL on the Apreo), X-ray Energy Dispersive Spectrometry (XEDS on the Apreo or Helios), X-ray Energy Dispersive Spectrometry (XEDS on the Verios), X-ray Energy Dispersive Spectrometry (XEDS on the TF20 TEM/STEM), Scanning Transmission Electron Microscopy (STEM on the TF20 TEM/STEM), Scanning Transmission Electron Microscopy (STEM on the Verios), Scanning Transmission Electron Microscopy (STEM on the Helios), and Focused Ion Beam milling or imaging (FIB on the HELIOS).

In order to operate the SEM and TEM microscopes or ancillary equipment, users must be trained by the Microscopy Facility Staff or Director.
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.

The Prototype Manufacturing Lab (formally known as Precision Machining Lab) is a prototyping service. We provide product development, prototype design, and fabrication planning services. We 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. For small-scale jobs, we have limited in-house facilities to manufacture simple parts and prototypes.

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 (RD)

The Research Development Office supports faculty in finding and securing a sustainable level of research funding to support their research. RD will assist in: 1) the creation of plans that describe strategies and utilize specific tools for finding opportunities and funders; 2) the preparation and writing of effective proposals to effectively communicate and advocate capabilities to funding managers; 3) the development and implementation of marketing strategies to attract extramural research funding.

TECHNOLOGY TRANSFER OFFICE (TTO)

BYU Technology Transfer protects and commercializes technologies invented 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.