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# **FACULTY RESEARCH RESOURCES**

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## BYU Studies

*BYU Studies*

1063 JFSB

801-422-6691

<https://byustudies.byu.edu>

BYU Studies is the publisher of the premier Latter-day Saint academic journal, publishing scholarship aligned with the Restoration of the gospel of Jesus Christ.

## 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 Teaching and Learning (CTL)

*Center for Teaching and 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 Office (CWO)

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

As part of Brigham Young University's Intellectual Property Services, the Creative Works Office (CW) promotes, protects, and markets projects developed by faculty, staff, and students, licenses them through trusted companies, and/or offers items for sale on the CW websites. 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. CW provides expertise in business relationships, negotiations, protection of intellectual property, agreements and contracts, entrepreneurship, and management.

In close collaboration with the General Counsel's office, liability protection for the institution and individual faculty members is afforded through careful review of each business arrangement and agreement. Creative works are 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 dissemination of research accomplishments through commercialization for the mutual benefit of the Academic and public communities.

## Electron Microscopy Facility

*Electron Microscopy Facility*  
801.422.9953  
EMLab@byu.edu  
<https://microscopy.byu.edu>

**Director:** Felipe Rivera, <https://microscopy.byu.edu/directory/felipe-rivera>  
**Manager:** Paul Minson, <https://microscopy.byu.edu/personnel>

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. The 5,000 sq. ft. purpose-built facility, located in the Eyring Science Center Annex, comprises dedicated spaces housing two high-end transmission electron microscopes (KRIOS G4 and Iliad 300), three scanning electron microscopes (Apreo VPSEM, Helios FIB/SEM, and Verios HRSEM), four sample preparation labs, and administrative offices. The Krios G4 TEM is an atomic-resolution cryogenic S/TEM equipped with an E-CFEG, a Selectris X Imaging filter, tomography capabilities, and fast data acquisition. The Iliad S/TEM is a new, fully-integrated, Titan-class, probe- and image-corrected, analytical atomic-resolution TEM with Energy-Dispersive X-Ray Spectroscopy (EDX) and Electron Energy-Loss Spectroscopy (EELS) capabilities. SEM capabilities include Variable Pressure imaging, Focused Ion-Beam Milling, and EDX. The sample preparation spaces include a dedicated BSL-2 wet lab with cryogenic sample preparation capability, an additional wet lab with ultramicrotomy, and two dry labs. Technical expertise in these capabilities is primarily provided through consultation with researchers, basic on-demand equipment training, and university courses. Additionally, imaging, analytical, and sample preparation services may be available as determined through consultation.

## 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 Faculty Center's programs and services reflect the following priorities:

- Assist with early-career challenges and opportunities, including support for faculty new to BYU

- Support the ongoing professional and personal development of mid- and late-career faculty
- Support faculty serving in academic leadership roles
- Assist with implementing BYU's distinctive mission as an LDS church-sponsored university that is centered on the development of disciple-scholars
- Aid with improving academic writing through an annual workshop for faculty

The Faculty Center provides a number of sessions throughout each academic year on scholarship. They also coordinate Faculty Learning Communities, offering opportunities for cross-disciplinary scholarly collaborations and discussions on topics such as gospel methodology and active learning. You can learn more about resources for scholarship and research on their website: <https://facultycenter.byu.edu/scholarship-research>

## Faculty Publishing Service

*Faculty Publishing Service*

4092 JKB

[savannah.lunt@byu.edu](mailto:savannah.lunt@byu.edu)

<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 Resource Center (LARC)

*Laboratory Animal Resource Center*

*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*

<https://larc.byu.edu>

The Laboratory Animal Resource 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.

## 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](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>)
- Scholars Archive, 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)

## **Magnetic Resonance Imaging Research Facility (MRIRF)**

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

The MRI Research Facility houses state-of-the-art imaging resources designed to support a wide range of scientific studies. Central to the facility is the Siemens 3T MAGNETOM Vida platform MRI machine (newly installed Fall 2022), which is equipped with a full complement of coils and can perform a wide range of scan sequences including diffusion tensor imaging, functional MRI, structural MRI, and perfusion imaging. Adjacent to MRI capabilities, the facility also boasts a Perkin-Elmer QuantumGX microCT system that offers the highest resolution for detailed imaging of small animals and other specimen materials. Additionally, an MRI coil laboratory is fully equipped with essential engineering tools such as oscilloscopes, network analyzers, signal generators, and a full-size test bore/RF shield to simulate the MRI electrical environment.

Beyond imaging, the facility offers dedicated wet lab space with a fume hood, two specialized rooms for neurological evaluation and behavioral testing, and ample preparation space next to the MRI scanner to ensure an efficient workflow. Facility users can receive training to operate equipment independently, or they may opt for assistance from our skilled staff in data collection and imaging procedures, enhancing both the educational and research capabilities of our institution.

## **Neal A. Maxwell Institute for Religious Scholarship**

*Neal A. Maxwell Institute for Religious Scholarship*  
1100 West View Building  
801-422-9229  
<https://mi.byu.edu>

The Neal A. Maxwell Institute for Religious Scholarship is BYU's central hub for original, mission-inspired research on scripture and religion. Organized around four key initiatives—Book of Mormon, Bible, interfaith understanding, and latter-day discipleship—our research community includes a core research faculty and a cohort of rotating fellows from across campus. Guided by Elder Maxwell's vision that "for a disciple of Jesus Christ, academic scholarship is a form of worship," the Institute provides support for its fellows' projects through a collaborative research environment, campus events, and various communications platforms. Its book imprint and public programming bring the best of religious scholarship to a broad Latter-day Saint audience.

## Office of Digital Humanities (ODH)

*The Office of Digital Humanities*

1163 JFSB

801.422.5360

<https://odh.byu.edu>

The Office of Digital Humanities supports research and pedagogy in humanities, foreign language learning, and related disciplines through innovative, computational approaches.

- Collaboration with faculty on the use of digital methods and tools for research and pedagogy, including WordCruncher for textual analysis.
- Custom development of software, databases, and workflows for humanities research and teaching, including language learning.
- A testing center for exams, including language assessments.
- A high-fidelity recording studio for producing podcasts, screencasts, and instructional materials.
- Computer labs and classrooms that support assignments drawing on specialized technology.

## PF Manufacturing Shop

*PF Manufacturing Shop (Previously known as the PML)*

108 CTB

801.422.4570

Primary Contact: Shae Jones, [shae\\_jones@byu.edu](mailto:shae_jones@byu.edu)

Contact: Therin Garrett, [thering@byu.edu](mailto:thering@byu.edu)

<https://pf.byu.edu/transportation-and-manufacturing-services>

The PF Manufacturing Shop is a prototyping service facility. We provide product development, prototype design, and fabrication & fabrication planning services. We have an in-house shop for most fabrication needs. 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>

## Religious Studies Center

*Religious Studies Center*  
185 HGB  
801-422-6975  
<https://rsc.byu.edu/>

The BYU Religious Studies Center was established in 1975 under the direction of Dean Jeffrey R. Holland. Our mission is to encourage, sponsor, and publish serious, faithful, gospel-related materials. We publish and market high-quality religious books and a periodical, the *Religious Educator*, of both an academic and devotional nature. Our goal is to promote greater understanding of the gospel of Jesus Christ and its importance in the lives of Latter-day Saints. We have published groundbreaking works on Latter-day Saint culture and history as well as in-depth studies dealing with scripture and doctrine.

## Research Administration Office (RAO)

*Research Administration Office*  
A-285 ASB  
801.422.3841  
<https://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.

### Sponsored Projects

Sponsored Projects Administrators help faculty with the mechanics of getting research proposals through internal approvals (via Quali Research) and submitted to the sponsor.

Prior to and upon award, each administrator represents the university in research contract negotiations and facilitate award set up. They issue/negotiate subawards/subcontracts as applicable to research projects. They ensure that faculty members are informed of the unique requirements of each award so that faculty can ensure that the project will be in compliance.

They coordinate any contractual needs during the course of each project and aid with close-out requirements. Each Sponsored Projects Administrator is assigned a portion of the University. College assignments can be found in the directory: <https://spo.byu.edu/directory>

## Compliance Committees

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

1. The Institutional Review Board (IRB) is the committee that assists the purposes of the Human Research Protection Program (HRPP) which is to protect the rights and welfare of human research subjects conducted by BYU investigators. It is also driven by a mission to build character, treat all individuals with dignity and fairness, and strengthen academic integrity in research. We are committed to upholding the highest ethical standards and ensuring the protection and welfare of human research subjects involved in research activities.

The HRPP not only strives to adhere to the highest ethical standards in its protection of human research subjects, but it also addresses the needs and concerns of investigators and enhances the support of their endeavors.

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, humane, 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*

<https://researchdevelopment.byu.edu>

BYU's Research Development team consists of the University-wide Research Development Office (RDO) together with a team of college-embedded research development professionals who cooperate as BYU's Research Development Coordinating Council (RDCC). The council coordinates to facilitate and build a vibrant research culture on BYU campus. Together, the RDO and RDCC provide support at every stage of the grants design and preparation process, including helping faculty identify relevant funding opportunities, align proposals to specific opportunities, find collaborators, and edit and revise proposals. RDCC members provide individual grants coaching over the entire proposal design and preparation process, offer technical assistance in drafting individual proposal components (budget, etc), and work together with the Research Administration Office to ensure timely proposal submission. The goal is to lighten faculty burden, improve grantsmanship and competitiveness, and facilitate funding for research to benefit the world.

Individually, the RDO office oversees university-wide grantsmanship training. Consistent events include a yearly campus-wide research development/grantsmanship conference, grant-writing bootcamp(s) aimed at early faculty, Fulbright Scholar workshop(s), a research networking event designed to help faculty identify and craft cross-disciplinary research efforts, and NIH and NSF training and associated writing groups. More specific training is also offered for specific and/or new funding opportunities (NSF CAREER, NIH MIRA etc).

## **Statistics Consulting Center**

*Statistics Consulting Center*

*2152F WVB*

*801.422.4505*

<https://statistics.byu.edu/consulting-center>

The Statistics Consulting Center provides statistical support to the university community while providing training to students in the Department of Statistics. This support includes:

- Study design and power analysis
- Help with preparing protocols for grant applications and IRB and or IACUC applications
- Help with setting up data collection and management tools such as electronic surveys and databases
- Randomization and study monitoring
- Analysis of the data, including summary graphs and tables
- Help with writing the statistical portions of methods and results sections for publication

## Technology Transfer Office (TTO)

*Technology Transfer Office*

3760 HBLL

801.422.6266

<https://techtransfer.byu.edu>

<https://www.youtube.com/@byutechnologytransfer>

BYU Technology Transfer protects and commercializes technologies invented by faculty and staff at Brigham Young University. Our services include (1) receiving invention disclosures, (2) obtaining intellectual property protection, (3) evaluating the market potential of technologies, (4) negotiating commercialization agreements, and (5) managing ongoing commercial deals. We can also help with intellectual property issues that arise in other contexts (e.g., in consulting agreements). Our goal is to transfer university inventions into the marketplace, where they can become products and services that improve the world.

## Wasatch Front Research Data Center (WFRDC)

*Wasatch Front Research Data Center*

*University of Utah*

*260 S. Central Campus Drive, Suite 3550*

*Salt Lake City, Utah 84112*

### **Contacts:**

- *Questions about research proposals and requirements:*
  - *Bryce Hannibal, WFRDC Administrator, [Bryce.Hannibal@census.gov](mailto:Bryce.Hannibal@census.gov)*
- *General questions about the RDC and access:*
  - *Mark Showalter, BYU WFRDC Representative, [showalter@byu.edu](mailto:showalter@byu.edu)*
  - *Lori Kowalski-Jones, WFRDC Executive Director, [lori.kowaleski-jones@fcs.utah.edu](mailto:lori.kowaleski-jones@fcs.utah.edu)*

### **Learn more:**

- <https://www.census.gov/about/adrm/fsrdc/locations/Utah.html>
- <https://www.census.gov/about/adrm/fsrdc/about.html>

### **Overview**

The **Wasatch Front Research Data Center (WFRDC)** is part of the national network of **Federal Statistical Research Data Centers (FSRDCs)** and serves researchers from institutions throughout the intermountain region. It offers secure access to a wide array of restricted-use microdata collected by federal agencies.

Housed at the University of Utah, the WFRDC provides a secure, confidential environment for conducting high-impact research in public health, demography, business, sociology, education, economics, and other fields. BYU is a consortium member, which means qualified faculty and students from BYU can access the facility for approved projects.

### ***Why Use the WFRDC?***

The WFRDC offers a unique opportunity for faculty and students to work with some of the largest and most detailed datasets available in the U.S., including:

- Census Bureau data (e.g., American Community Survey, Decennial Census)
- National Center for Health Statistics
- Bureau of Labor Statistics
- Social Security Administration
- USDA, IRS, CMS, and many others

These data enable research that is not possible with public-use files, due to their granularity and geographic detail. Researchers can explore questions involving small-area analysis, linked administrative records, or longitudinal population dynamics with high statistical power.

### ***Getting Started***

Researchers from any academic discipline are encouraged to explore potential projects. Current and past projects have examined topics in:

- Population health and healthcare utilization
- Labor markets and income mobility
- Business formation and productivity
- Education and demographic change
- Environmental exposures and public policy

To begin, contact one of the representatives listed above to discuss project feasibility, proposal development, and the application process.