# Table of Contents

Welcome to Lakehead University ................................................................. 2
Who to Call ................................................................................................. 3
Research Services ...................................................................................... 8
Major Funding Councils of Canada ........................................................ 9
Funding Opportunities Resources .............................................................. 11
Senate Research Committee .................................................................. 12
Research Awards at Lakehead ................................................................. 15
Grant Writers ............................................................................................ 16
Graduate Studies ....................................................................................... 16
Research Support Services at the Library .............................................. 17
Research Accounting .............................................................................. 17
How to Set Up a Research Account ....................................................... 18
Research Ethics Board ........................................................................... 18
Animal Care Committee ......................................................................... 19
Biosafety Committee .............................................................................. 20
Radiation Safety ..................................................................................... 21
Working with Media Relations ............................................................... 21
Research Policies and Procedures ......................................................... 22
Research Services Forms ...................................................................... 24
Economic Development and Innovation ............................................. 25
Research Centres and Institutions ....................................................... 27
Lakehead University Centre for Analytical Services (LUCAS) ........... 31
Welcome to Lakehead University!

This year Lakehead University starts its next 50 years in its development. From our start in 1965, we have become one of Canada’s leading comprehensive universities. We now have ten faculties, two campuses, a Law School, a Medical School, and over 600 graduate students in masters and doctoral programs. Research is a critical and valued part of the university. New faculty are especially excited about their research careers and the offices of Research Services and Economic Development and Innovation are here to help you fulfil your research goals as you start your career at Lakehead.

In this Information Guide for New Faculty you can learn more about our internal grants, our professional development programs, external research and innovation funding opportunities, research ethics, animal care, technology transfer, commercialization, etc. We have also provided you with important contact information for staff. Research Services takes great pride in learning about the different research interests of each faculty member and will help you develop your grant writing expertise to better enable you to compete for valuable research funding. We work very closely with the Deans and the Faculty of Graduate Studies to ensure you are able to make the connections that you need to make your research an integral part of your academic career. Issues such as open access, knowledge mobilization plans, and ethics review can be complicated. We take pride in helping you to navigate through areas such as these and throughout the year we offer many training programs and information sessions. If you are looking for industry partners or need assistance with intellectual property management, our Economic Development and Innovation office is here to help you.

Last year, Research InfoSource ranked Lakehead University first in Canada in the undergraduate university category for demonstrating superior achievement both in earning research income and publishing research in leading scientific journals. In Maclean’s last year, we ranked number one in funding from SSHRC. While we take pride in these rankings, our greatest satisfaction is helping the individual researcher get their program underway and ensuring that they feel part of the strong research culture that exists at Lakehead University. I encourage you to read the information contained in this Information Guide, but I also encourage you to drop by our offices to find out more about what we can do for you.

Andrew P. Dean, Ph.D.
Vice-President, Research and Innovation
Who to Call for…

Research Services and Administration

Contact: Anne Klymenko, Director
Research Services, (807) 343-8223
Email: anne.klymenko@lakeheadu.ca

- For information on services provided by Research Services.
- For guidance in interpreting university research policies and procedures.
- To discuss funding opportunities for international research collaborations.
- For information regarding the application of Lakehead University’s overhead policy.
- For advice and strategies on preparing successful research proposals.
- For advice on preparing large-scale collaborative research proposals.
- For information on research infrastructure proposals to be submitted to the Canada Foundation for Innovation and the Ontario Research Fund, including the CFI John R. Evans Leaders Fund.
- For information regarding institutional research programs (e.g. Canada Foundation for Innovation, Canada Research Chairs, Industry Research Chairs, Lakehead University Research Chairs and other career scientist awards, etc.).
- For assistance with planning a research-related media event.

General Research Inquiries and Romeo Research Portal Database

Contact: Bonnie Knott, Administrative Officer
Research Services, (807) 343-8934
Email: bonnie.knott@lakeheadu.ca

- For general inquiries regarding research services.
- To obtain information on accessing the Romeo Research Portal.
- For support when using the Romeo Research Portal to apply for SRC funding, human ethics, animal care, or biosafety applications; renewals or amendments.

External Research Funding Opportunities

Contact: Andrew Hacquoil, Research Grants Officer
Research Services, (807) 343-8092
Email: ahacquo1@lakeheadu.ca

- For information on the various funding opportunities available to support research, including information on the Community of Science-Pivot funding database and Imagine Canada Grant Connect (foundations).
For review of external research grant proposals prior to submission to ensure compliance with agency guidelines and University research policies.

For general assistance in interpreting information from research agency guidelines and guidance with completing application forms.

For guidance with electronic submission of applications (e.g. NSERC, SSHRC, CIHR).

Proposal Development and Research Strategies in the Natural Sciences and Engineering and Health

Contact: Tyson Gofton, Research Facilitator (Natural Sciences, Engineering and Health), (807) 343-8290
E-mail: nsercfacilitator.research@lakeheadu.ca

- Pre-award assistance with proposal strategies and grant writing in the natural sciences and engineering and health.
- Information on how to participate in internal peer review and professional development programs.

Proposal Development and Research Strategies in the Social Sciences, Humanities and Health

Contact: Andrew Hacquoil, Research Grants Officer 
Research Services, (807) 343-8092
Email: ahacquo1@lakeheadu.ca

- For assistance with grant applications in the social sciences and humanities.
- For information on SSHRC, CIHR (health research in the social sciences and humanities), foundations, and other granting programs supporting SSHRC research.

Internal Research Funding

Contact: Sarah Jane Walker, Executive Assistant to the Vice-President, Research and Innovation, (807) 343-8201
Email: ea.vpri@lakeheadu.ca

- For general information on internal research funding from the Senate Research Committee and Regional Research Fund.
- For general assistance in interpreting program guidelines or completing application forms for internal research grant programs.
Establishing or Connecting with a Lakehead Research Centre or Institute

Contact: Dr. Batia Stolar, Associate Vice-President, Research and Graduate Studies, (807)343-8489
E-mail: batia.stolar@lakeheadu.ca

- For assistance in establishing new interdisciplinary research centres.
- Information on existing research centres and how to participate.
- Review and administration of research centres/institutes on campus.

Nominations for Research Prizes

Contact: Dr. Batia Stolar, Associate Vice-President, Research and Graduate Studies, (807) 343-8489
E-mail: batia.stolar@lakeheadu.ca

- Information on university procedures for preparing university endorsed nominations for research prizes (i.e., Royal Society of Canada, Killam Awards, Polanyi Prizes, Herzberg Canada Gold Medal for Science and Engineering, Gairdner Foundation, etc.).
- To obtain nominations endorsed by the University President.

Ethical Procedures – Human Participants and Animal Care

Contact: Sue Wright, Research Ethics and Administration Officer
Research Services, (807) 343-8283
Email: susan.wright@lakeheadu.ca

- For information on the application and approval process for research involving human participants through the Lakehead University Research Ethics Board.
- For information on research involving animals through the Animal Care Committee.

Research Contracts, Tri-Council Sub-Awards and Post-Award Administration

Contact: Sue Wright, Research Ethics and Administration Officer
Research Services, (807) 343-8283
Email: susan.wright@lakeheadu.ca

- For the review and processing of standard research agreements, contribution agreements, and sub-awards with external research sponsors and partners including the Tri-councils, other federal and provincial governments, and the not-for-profit sectors.
- To obtain approvals for the establishment of research accounts.
- For information on the hiring practices of research staff and students to be paid from research grants and contracts.
- To request conditional release of research funding.
Postdoctoral Fellows and Visiting Scholars

Contact: Andrew Hacquoil, Research Grants Officer
Research Services, (807) 343-8092
Email: ahacquo1@lakeheadu.ca

- To obtain information on the appointing of postdoctoral fellows.
- To obtain letters of appointment for postdoctoral fellows.
- To arrange for letters of invitation to visiting scholars.

Technology Transfer, Intellectual Property, Industry Research Partnerships and Economic Development

Contact: Florence Bailey, Manager, Industry Research Partnerships
Economic Development and Innovation, (807) 343-8793
Email: fbailey@lakeheadu.ca

- For assistance in preparing research proposals to support university-industry research projects.
- For assistance to researchers, industry, governments, and other sectors of society in identifying research partnership opportunities. The office is here to help you the researcher, or business representative, to access research opportunities at the university.

Contact: Ellen MacKay, Acting Manager, Technology Transfer
Economic Development and Innovation, (807) 343-8724
Email: emackay@lakeheadu.ca

- For advice and information regarding the protection of university intellectual property through patent, copyright and trademark.
- For the negotiation of university-industry research agreements and grants.
- For commercialization, licensing and knowledge transfer services.
- For review of various IP related contracts, including material transfer agreements and confidentiality agreements.
- For advice and assistance with the creation of university spin-off companies.
- To provide marketing assistance with finding licensees for university created IP.

Research Accounting

Contact: Margot Ross, Manager, Research, Trust and Accounting
Financial Services, (807) 343-8730
Email: margot.ross@lakeheadu.ca

- For advice and information on the eligibility of research expenditures in accordance with LU policies and agency guidelines and the purchasing of research-related equipment and materials.
For the preparation of financial reports and invoices for research grants and contracts.

For access to the university financial system for electronic purchase orders and real time financial reporting of your grant funds.

For the processing of research expense reimbursement requests such as travel claims.

For access to the Concur Travel system for electronic travel requests and expense claims.

**Media Relations**

**Contact:** Mr. Brandon Walker, Media Relations Officer  
Media Relations, (807) 343-8372  
Email: mediarelations@lakeheadu.ca

- Media events and media relations.
- Media contact to reach Lakehead research experts.
- Media training and other resources.

**University Instrumentation Laboratory (UIL) and Lakehead University Centre for Analytical Services (LUCAS)**

**Contact:** Dr. Francis Appoh, Director  
UIL/LUCAS, (807) 343-8853  
Email: francis.appoh@lakeheadu.ca

- For information on the policies and procedures for accessing scientific instrumentation located in the UIL.
- For information on the analytical testing services available through LUCAS.

**Graduate Studies**

**Contact:** Maegen Lavallee, Graduate Funding Officer  
Faculty of Graduate Studies, (807) 766-7257  
Email: maegen.lavallee@lakeheadu.ca

- For information on all student funding opportunities to support graduate training (Masters and Ph.D.).
- For assistance in the submission of graduate scholarship applications (e.g., NSERC, SSHRC, CIHR, OGS, etc.).
- To arrange payment of stipends and awards to graduate students from faculty research grants.
Research Services

Research Services (RS) is delighted to welcome you to Lakehead. This guide is intended to help you begin the development of a successful research career at Lakehead.

The mandate of RS is to support and facilitate research and scholarship activities in accordance with the University’s Strategic Plan and Academic/Research Plan.

RS is the first point of contact for faculty members who are seeking financial support for their research or assistance in administering their program of research. We provide researchers with up-to-date access to information on major research funding programs, as well as a multitude of other research funding sources. We also serve as the central point of contact for all major research funding agencies, keeping abreast and advising researchers of upcoming changes in the funding environment and associated guidelines and application procedures, as well as new funding directions and initiatives.

We can assist with your proposal and post-award administration

RS provides assistance to researchers in preparing funding proposals, particularly those of a large-scale collaborative nature. RS also initiates and coordinates visits and webinars to the University by program officers of granting agencies in order to provide University researchers with access to first-hand information about new programs and directions of these agencies.

All research grant applications as well as contract proposals are reviewed by RS staff prior to their submission to ensure compliance with the policies and requirements of the University and the particular funding agency. Once awarded, all research contracts with the federal and provincial governments and not-for-profit sector are negotiated by RS on behalf of the University and its researchers. Research contracts with industry are negotiated by the Economic Development and Innovation office.

We can help facilitate interdisciplinary research collaborations and connect you to community partners and government organizations

Collaboration has emerged as a key requirement in many federal and provincial research programs. Lakehead’s RS, through its Research Facilitators, helps to connect researchers in the natural sciences and engineering, social sciences, humanities and health with academic colleagues, not-for-profit organizations, government, Aboriginal communities, and other universities seeking to develop sustainable solutions to social, environmental, health, and cultural challenges. The RS also works closely with Economic Development and Innovation (EDI) to make connections with industry partners.

We can help you with your research ethics and regulatory requirements

RS administers the University’s research ethics programs (Research Ethics Board and Animal Care Committee). We also work with Human Resources to deliver our Biosafety
and Radiation Safety program as it relates to research. The Office works in collaboration with the office of Media Relations to promote Lakehead’s research initiatives and impacts. In addition, we act as a resource to the Senate Research Committee and its various sub-committees. Research Services is located on the second floor (Suite 2011) of 1294 Balmoral Street, Thunder Bay. Please drop by and meet our staff. We are committed to assisting you with all your research needs. All researchers are encouraged to visit the RS website for additional information at http://research.lakeheadu.ca/or contact:

Anne Klymenko  
Director  
Research Services, (807) 343-8223  
1294 Balmoral Street, Suite 2011  
Thunder Bay, ON  P7B 5E1  
Email: anne.klymenko@lakeheadu.ca

Internal Deadlines

Please note that all external funding applications must be submitted to RS for internal review at least two weeks prior to the external deadline. Please refer to the Policy for Application and Administration of External Research Grants and Contracts at https://www.lakeheadu.ca/research-and-innovation/policies/external-grants-contracts.

Major Funding Councils of Canada

Natural Sciences and Engineering Research Council (NSERC)

NSERC is the national instrument for making strategic investments in Canada’s capability in science and technology. NSERC supports both basic university research through Discovery Grants and project research through partnerships among universities, governments, and the private sector, as well as the advanced training of highly qualified people.

For forms, guidelines, and other NSERC funding opportunities, please go to http://www.nserc-crsng.gc.ca/index_eng.asp
Social Sciences and Humanities Research Council of Canada (SSHRC)

SSHRC is the federal research funding agency that promotes and supports postsecondary-based research and training in the humanities and social sciences. By focusing on developing talent, generating insights and forging connections across campuses and communities, SSHRC strategically supports world-leading initiatives that reflect a commitment to ensuring a better future for Canada and the world.

For forms, guidelines, and more information on SSHRC funding opportunities, please go to http://www.sshrc-crsh.gc.ca/home-accueil-eng.aspx

Canadian Institutes of Health Research (CIHR)

CIHR is the Government of Canada’s health research investment agency. CIHR was created in 2000 under the authority of the Canadian Institutes of Health Research Act. It is an independent agency and is accountable to Parliament through the Minister of Health. Its mission is to create new scientific knowledge and to enable its translation into improved health, more effective health services and products, and a strengthened Canadian health care system. Composed of 13 Institutes, CIHR provides leadership and support to health researchers and trainees across Canada.

For more information: http://www.cihr-irsc.gc.ca/e/193.html

Canada Foundation for Innovation (CFI)

John R. Evans Leaders Fund (JELF)

Created by the Government of Canada in 1997, CFI strives to build our nation’s capacity to undertake world-class research and technology development to benefit Canadians. Thanks to CFI investment in state-of-the-art facilities and equipment, universities, colleges, research hospitals, and non-profit research institutions are attracting and retaining the world’s top talent, training the next generation of researchers, supporting private-sector innovation, and creating high-quality jobs that strengthen Canada’s position in today’s knowledge economy. One of CFI’s major programs is the John R. Evans Leaders Fund (JELF). The JELF is designed to help universities attract and retain the very best of today’s and tomorrow’s researchers at a time of intense international competition. The JELF offers universities the opportunity to:

- acquire infrastructure for their leading research faculty to undertake cutting-edge research; and
- create competitive packages of research support in the form of infrastructure and a portion of the operating and maintenance costs from the CFI, coupled with direct research costs from partner organizations.

Universities are provided with allocations under the JELF. A JELF internal call for proposals has been distributed and can be found here:
Applications are due to the Office of Research Services by November 30, 2016.

For more information on the CFI in general, please go to http://www.innovation.ca

**Funding Opportunities Resources**

**COS Pivot Funding Database**

The COS Pivot Database contains over 25,000 records worth over $33 billion related to the natural sciences and engineering, social sciences and humanities, and health. It allows individuals to undertake comprehensive searches for funding opportunities. Any researcher on campus can access this important resource through their computer. This database can be found at: http://pivot.cos.com/

**Imagine Canada - Directory of Foundations (Grant Connect)**

Grant Connect contains profiles on a large variety of both Canadian and U.S. foundations and companies, as well as the priority areas that these organizations are willing to fund. The RS works with External Relations for submission of unsolicited proposals to charitable foundations.

**MERX Canadian Public Tenders**

MERX is the most complete source of Canadian public tenders, private tenders, U.S. tenders, and private-sector construction news available in Canada. Billions of dollars in public-sector business opportunities are tendered annually through the MERX Canadian Public Tenders service, from goods and services representing hundreds of dollars to multi-million dollar contracts. RS has access to this on-line service and conducts searches for opportunities that might be of interest to faculty members. For more information: https://www.merx.com/

For more information about these resources and external funding opportunities, please contact:

Andrew Hacquoil  
Research Grants Officer, (807) 343-8092  
1294 Balmoral Street, Suite 2011  
Thunder Bay, ON  P7B 5E1  
Email: ahacquo1@lakeheadu.ca
Senate Research Committee

The Senate Research Committee allocates internal seed grants to enhance research capacity development including the facilitation of external grant applications, and scholarly productivity of Lakehead University faculty members. Funds are for the support of research activities covered under the Tri-Council’s (NSERC, CIHR, SSHRC) mandates. Preference for funding is given to full-time eligible Lakehead faculty members, although in special circumstances part-time faculty and post-doctoral or research fellows may be considered. Limited funds are available so faculty are expected to develop their research to the point where applications can be made externally to NSERC, CIHR, SSHRC or other external funding sources. Senate Research Committee funds should be regarded as supplementary. The Committee considers requests from eligible faculty on the basis of merit, need, and the availability of funds. All funds are awarded on a competitive basis, although support is preferentially awarded to new faculty and to those who currently hold, or are currently applying for, external Tri-council funds. Please note that these internal funds are generated through the success of Lakehead University faculty in external Tri-council competitions.

Grants are awarded for research infrastructure and projects, as follows:

(a) to support the research programs of new, full-time, faculty members (typically within three years of their initial appointment);
(b) to support efforts by faculty members to gain or regain funding by a major funding agency;
(c) to support new initiatives by faculty members who are changing fundamentally their direction of research and are seeking appropriate external support; and
(d) to support new collaborative initiatives between faculty members who are also seeking appropriate external support.

Note: If the applicant does not have external funding and has not applied for it, they must explain why such funding cannot reasonably be expected for the proposed project.
## Senate Research Committee - Internal Research Funds and Deadlines

<table>
<thead>
<tr>
<th>Fund</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>Research Development Fund</td>
<td></td>
</tr>
<tr>
<td>maximum grant per year - $7,000</td>
<td>January 20</td>
</tr>
<tr>
<td>Open Access Author Fund</td>
<td>Open</td>
</tr>
<tr>
<td>Maximum grant per year: $2,500</td>
<td></td>
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<tr>
<td>Conference Travel Fund</td>
<td></td>
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<tr>
<td>maximum grant per year - $1,000</td>
<td>May 10</td>
</tr>
<tr>
<td>Publication Assistance Fund</td>
<td></td>
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<tr>
<td>maximum grant per year - $500</td>
<td>January 20</td>
</tr>
<tr>
<td>Visiting Scholar Grant</td>
<td></td>
</tr>
<tr>
<td>maximum grant per year- $1,000</td>
<td>January 20</td>
</tr>
<tr>
<td>Leave/Non-Leave Research Grant</td>
<td></td>
</tr>
<tr>
<td>To access guidelines &amp; application form, click here</td>
<td>January 20</td>
</tr>
<tr>
<td>Distinguished Researcher Award</td>
<td></td>
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<tr>
<td></td>
<td>November 30</td>
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<tr>
<td>Contributions to Research Award</td>
<td></td>
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<td></td>
<td>May 15</td>
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</tbody>
</table>

*Please note that the Senate Research Committee has revised its program categories to be more inclusive of CIHR eligible faculty.

Please visit: [https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal](https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal) for more information, or contact:

Sarah Jane Walker, Executive Assistant  
Vice-President, Research and Innovation  
955 Oliver Road - UC 2003  
Thunder Bay, ON P7B 5E1  
Tel.: (807) 343-8201  
Email: ea.vpri@lakeheadu.ca
## Other Internal Research Funds and Deadlines

<table>
<thead>
<tr>
<th>Fund</th>
<th>For More Information</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>Regional Research Fund</td>
<td><a href="https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal">https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal</a></td>
<td>March 31, 2017</td>
</tr>
<tr>
<td>Vice-President Research and Innovation's Strategic Fund</td>
<td><a href="https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal">https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal</a></td>
<td></td>
</tr>
<tr>
<td>1. Research Facilitation Fund:</td>
<td>Sustainability Studies Research Grant:</td>
<td></td>
</tr>
<tr>
<td>2. Emergency Research Equipment Repair Fund:</td>
<td>Strategic Research Opportunity Grant: Anytime</td>
<td></td>
</tr>
<tr>
<td>3. Lakehead University's Research Bridge Fund:</td>
<td>UMD Research Collaboration Grant: Anytime</td>
<td></td>
</tr>
<tr>
<td>4. International Research Collaboration Grant:</td>
<td>Anytime</td>
<td></td>
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</tbody>
</table>

Please visit [https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal](https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal) for more information, or contact:

Sarah Jane Walker, Executive Assistant  
Vice-President, Research and Innovation  
955 Oliver Road - UC 2003  
Thunder Bay, ON P7B 5E1  
Tel.: (807) 343-8201  
Email: ea.vpri@lakeheadu.ca
Research Awards at Lakehead

Distinguished Researcher Awards

The Distinguished Researcher Award is the highest honor conferred by Lakehead University for research and scholarly activity. As such, the award would only rarely be given to the same scholar twice in their career, and then only if their research and scholarly activity was sustained at a high level over a period of at least two decades. More usually, the award would recognize a full career of internationally recognized intellectual contributions, including:

1. Consistency in the production of scholarly materials appropriate to the scholar’s discipline.

2. Significant contributions to research and scholarly activity as documented by basic research bodies, professional technical committees, applied research organizations, and/or professional, literary, and artistic associations.

3. Constant and significant direct contributions toward the training of graduate students, wherever applicable.

4. The receipt of research funding, at levels appropriate to the scholar’s discipline.

Each year, the award may be given to three full-time Lakehead University professors, one in the Social Sciences and Humanities, one in the Natural Sciences and Engineering, and one in the Health Sciences, if there are qualified candidates who are nominated. A scholar whose work bridges these intellectual categories must be nominated in only one area, and the letter of nomination should explain the situation. For more information about deadlines and nominations for Distinguished Researcher Awards, please see: https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal

Contributions to Research Awards

The Contributions to Research Awards recognize outstanding recent research activity by Lakehead University faculty. Up to three awards of $100 each will be given annually. These awards recognize research accomplishments in the previous three-year period, compared to the Distinguished Researcher Award which is typically given for achievements over a longer period of time. For more information about these awards, please see: https://www.lakeheadu.ca/research-and-innovation/research-services/funding-prizes/internal
Grant Writers

Research Services maintains a list of grant/professional writers on its web site who are available to faculty members to aid in the planning, writing and/or editing of grant proposals. Information on the services that each individual offers can be accessed by clicking on "Services Offered" under his or her name. A particular grant writer can then be contacted through the use of an online form.

For more information about writers:
https://www.lakeheadu.ca/research-and-innovation/research-services/resources/writing/grant-roster

Graduate Studies

The Faculty of Graduate Studies is responsible for the administration and development of graduate programs at Lakehead University. All graduate student funding is administered through this Office, including Graduate Assistantships. The Office administers both internal scholarships, awards and bursaries, and external scholarships such as CIHR, NSERC, OGS, and SSHRC.

To supervise graduate students you must be a member of the Faculty of Graduate Studies. In some departments or schools, new faculty take on the role of graduate supervision immediately; talk to your Chair/Director and Graduate Coordinator about the practice in your particular department or school. For detailed information on Graduate Supervision, and how to apply to become a member of the Faculty, see the Graduate Supervision Policy at:
https://www.lakeheadu.ca/academics/graduate/regulations/responsibilities/node/3529

Faculty having any questions regarding their graduate program, graduate regulations or funding for their graduate students should contact this Office. For more information, contact:

Trish Sokoloski
Manager
Faculty of Graduate Studies, (807) 343-8099
955 Oliver Road, RC 0009
Thunder Bay, ON P7B 5E1
Email: trish.sokoloski@lakeheadu.ca
Research Support Services at the Library

The Lakehead Library can help Lakehead researchers make their results public by:

- Submitting articles to Knowledge Commons, Lakehead’s institutional repository which allows researchers to meet grant requirements for open access;
- Placing data sets in Dataverse, a repository that makes data visible on the Web;
- Providing publisher information – help with finding an open access journal or a journal that permits self-archiving within a grantor’s timeframe; help with avoiding the predatory publisher trap, and information on publishers who provide discounted Article Processing Charges to Lakehead researchers.

Library staff can assist with creating data management plans that may include documentation on file formats, file-naming conventions, organization, data security and data-sharing. Staff can also provide assistance with tracking metrics such as article-level usage counts, journal impact factors and alt-metrics where available, with establishing research identifiers and with understanding author rights. In addition, for journal editors, the library offers hosting on Open Journal Systems (OJS). More details at http://libguides.lakeheadu.ca/scholcomm. For more information, contact:

Moira Davidson
Head of Technical Services, Library, 807-343-8315
955 Oliver Road, Thunder Bay, ON  P7B 5E1
moira.davidson@lakeheadu.ca

Research Accounting

The Office of Financial Services has a team dedicated to assisting researchers with the financial administration of their grants. The department of Research Accounting is responsible for administering and monitoring all research accounts and for preparing financial statements and other reports to the funding agencies. We provide advice on the eligibility of expenses, arrange for transfers and cost recoveries, prepare invoices to sponsors, and maintain signing authority and access to the research accounts. We can assist with the budget management and payroll costing. Research Accounting is located in the basement of the University Centre in UC0002. https://www.lakeheadu.ca/faculty-and-staff/departments/services/finance/research-trust-accounting. For more information contact:

Margot Ross
Manager, Research, Trust and Accounting
Financial Services, (807) 343-8243
955 Oliver Road, UC 0002
Thunder Bay, ON  P7B 5E1
Email: margot.ross@lakeheadu.ca
How to Set Up a Research Account

To ensure that all ethical protocols are in place prior to account establishment and to capture data for our records and statistics, all research accounts are to be authorized and established by RS. **RS requires the following documents before establishing a research account:**

1. Copy of signed Agreement (contract) or Letter of Award (grant).
2. Copy of Research Proposal and any updates.
3. New updated budget if one is not included in the Agreement or Proposal (or if amount awarded is different than requested).
4. Signed Research Proposal Approval Form.
5. Signed Use of Facilities Form (if applicable).
6. If applicable, ethical approval from the appropriate certification committee/board (i.e., REB, ACC, Biosafety).

If a project involves research with human participants or animals, contact Sue Wright at extension 8283. If the project involves biohazardous materials, contact the Biosafety Officer at extension 8806. Please note that a research account will not be established until ethical approval is in place. To set up a research account, contact:

Sue Wright  
Research Ethics & Administration Officer  
Research Services, (807) 343-8283  
1294 Balmoral Street, Suite 2011  
Thunder Bay, ON P7B 5E1  
Email: susan.wright@lakeheadu.ca

Research Ethics Board

The Board of Governors of Lakehead University has established the Research Ethics Board (REB) which is committed to the ethical integrity of all research involving humans conducted in its jurisdiction or under its auspices, by its faculty, staff or students, regardless of where it is conducted.

The REB is guided by the Tri Council Policy Statement: Ethical Conduct for Research Involving Humans 2 (TCPS 2).
The Lakehead University Research Ethics Board Terms of Reference is available at: https://www.lakeheadu.ca/research-and-innovation/policies/reb

The following forms are available through the Romeo Research Portal at https://erpwp.lakeheadu.ca/. To log in, use your myInfo username and password.

- Researchers Agreement Form (submission form)
- Request for Renewal form (under Events)
- Request for Amendment for an Approved Project form (under Events)
- Final Report form (under Events)

Ethics proposals are submitted to Research Services. The ethical review process for minimal risk research generally takes between 2-3 weeks.

For additional information about the ethical review process, contact:

Dr. Lori Chambers          Sue Wright
Chair, Research Ethics Board Research Ethics and Administration Officer
(807) 343-8346              (807) 343-8283
lori.chambers@lakeheadu.ca  susan.wright@lakeheadu.ca

Animal Care Committee

The Lakehead University Animal Care Committee is a President’s Committee which was established in the 1970s to ensure the ethical use of animals used in teaching and research. The Committee composition and Terms of Reference are governed by the Canadian Council on Animal Care and Ontario’s Animals for Research Act. The administration office for the Committee is Research Services.

The Committee’s role is to ensure that research and teaching activities involving animals at Lakehead University is conducted within the guidelines of the Canadian Council on Animal Care and the Animals for Research Act. Animal Utilization Protocol forms must be completed for all animal use including research, teaching, testing, and field studies, and submitted to the Committee via the Romeo Research Portal for approval. Researchers are invited to the Committee meetings to discuss their protocols and are encouraged to bring along students who will be involved in the research. Protocols are reviewed on an annual basis under the guidelines of the Canadian Council on Animal Care. The Committee also provides training for researchers to enable them to become familiar with animal care issues.

Further information on Animal Care is available at: https://www.lakeheadu.ca/research-and-innovation/ethics/animals
Applications, amendments, and renewals for Animal Utilization Protocols are available through the Romeo Research Portal at: https://erpwp.lakeheadu.ca/. To log in, use your MyInfo username and password.

For more information, you may also contact:

Dr. Nancy Luckai
Chair, Animal Care Committee
(807) 343-8686
nancy.luckai@lakeheadu.ca

Sue Wright
Research Ethics and Administration Officer
(807) 343-8283
susan.wright@lakeheadu.ca

Biosafety Committee

Lakehead’s comprehensive risk management program for biological hazards, the Biosafety Program, is overseen by the Biosafety Committee, which reports to the Vice-President, Research and Innovation. All faculty, researchers, and students who work with biological hazards must acquire prior approval and act in accordance with the program.

A biological hazard is an agent of biological origin that has the ability to produce deleterious effects on human beings. Biohazards can include bacteria, viruses, fungi, parasites, and plants. Biohazards may not be as well known, or as visible as chemical or physical hazards, however, they are capable of causing very serious health effects to exposed individuals.

For information about identifying biohazards, or to obtain an application to work with biohazards, contact the Biosafety Officer, Office of Human Resources (807) 343-8806.

For additional information, please visit the Human Resources Health and Safety website at https://www.lakeheadu.ca/faculty-and-staff/departments/services/hr/health-safety, or contact:

Biosafety Officer
Office of Human Resources, (807) 343-8806
955 Oliver Road, UC 0003D
Thunder Bay, ON P7B 5E1
Email: labsafety@lakeheadu.ca
Radiation Safety

It is a requirement of federal legislation that all activities involving radioactive materials are licensed by the Canadian Nuclear Safety Commission (CNSC); therefore Lakehead University must maintain control of radioactive hazards on campus to ensure compliance with applicable federal legislation, guidelines and regulatory documents.

For additional information, please visit the Human Resources Health and Safety website at https://www.lakeheadu.ca/faculty-and-staff/policies/health-and-safety/radiation-use/node/964 or contact:

Biosafety Officer
Office of Human Resources, (807) 343-8806
955 Oliver Road, UC 0003D
Thunder Bay, ON P7B 5E1
Email: labsafety@lakeheadu.ca

Working with Media Relations

Interacting with various media outlets, including radio, TV, print and online news sites, allows your research to potentially reach thousands or even millions of people. The Office of Media Relations and Research Services are the go-to places on campus for media seeking information about Lakehead research, scholarly and artistic work, and for researchers wanting to share their stories of research findings, impacts, discoveries, and innovations.

Why talk to the Media?

The media can be a powerful and influential tool to reach out to people in all walks of life. Here at Lakehead, we rely on the provincial and federal governments and on funding agencies for more than $23 million to support research, scholarly activity, and student training at the University. Consequently, it is crucial that we do whatever we can to demonstrate to governments, agencies, taxpayers, and sponsors that their money is well spent. One of the most effective ways to get that message across is through print and broadcast media.

You are the Expert!

The media often calls upon Lakehead University faculty members and researchers to share their expertise because you are respected members of the community making important contributions through research that impacts society every day. In responding to a media opportunity, faculty obtain greater public awareness of their achievements and the University receives recognition for its scholarly efforts in the social, cultural, and economic life of our region and country.
Remember, you are the expert. If you are unsure about something, tell the journalist that and promise to get back with an answer right away or refer him/her to another faculty member who might be more qualified to answer that question. Stay within your area of expertise and responsibility. **If you are asked to speak on behalf of Lakehead University, please refer the media to the Media Relations Office (807) 343-8177.**

Media Relations works closely with the Faculty Deans and Research Services to identify stories that demonstrate how Lakehead is pursuing its research mission. Captivating stories of success not only make a persuasive argument for attracting world-class faculty and students, but also encourage on-going financial support for research.

Communicating information successfully to the media requires a well-prepared strategy and an understanding of what the media expects from you. Upon request, Media Relations will provide faculty and researchers with media training designed to assist in becoming more effective in their interactions with print, radio, and broadcast reporters. If planning a research-related media event contact:

Anne Klymenko  
Director  
Research Services  
(807) 343-8223  
anne.klymenko@lakeheadu.ca

To access media training opportunities or additional media relations support for yourself or your research group, please contact:

Thunder Bay Campus (UC 2002) Orillia Campus (OA 2001 E)  
Brandon Walker Kathy Hunt  
Media Relations Officer Communications Officer  
(807) 343-8177 (705) 330-4008, Ext. 2014  
mediarelations@lakeheadu.ca kjhunt3@lakeheadu.ca

**Research Policies and Procedures**

Faculty should be familiar with the following Lakehead University research-related policies:

- **Animal Care Committee Policy**

For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/research/terms-of-reference-for-lakehead-universitys-animal-care-committee
Policy Framework for Research Involving Humans
For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/research/policy-framework-for-research-ethics-involving-humans-at-lakehead-university

Biosafety Policy
For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/health-and-safety/biosafety

CFI Infrastructure Operating Fund (IOF) Lakehead University Institutional Allocation Plan
For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/research/cfi-infrastructure-operating-fund-iof-lakehead-university-institutional-allocation-plan

Guidelines on the Use of Students as Research Subjects
For more information: https://www.lakeheadu.ca/research-and-innovation/policies/guidelines-on-the-use-of-students-as-research-subjects

Intellectual Property
For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/research/intellectual-property

Policy for Application and Administration of External Research Grants and Contracts
For more information: https://www.lakeheadu.ca/research-and-innovation/policies/external-grants-contracts

Policy for Recovery of Overhead (Indirect Costs) on University-Administered Research Funds
For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/research/overhead-indirect-costs-on-university-administered-research-funds-recovery-of

Guidelines and Policy for the Ethical Conduct of Research and Procedures for Investigating Misconduct
For more information: https://www.lakeheadu.ca/research-and-innovation/policies/ethical-conduct-of-research-guidelines-and-policy-for-the-and-procedures-for-investigating-misconduct
❖ Disposal of Equipment
For more information: https://www.lakeheadu.ca/research-and-innovation/policies/disposal-of-equipment

❖ Policies and Procedures for the Establishment of Research Centres and Research Institutes
For more information: https://www.lakeheadu.ca/research-and-innovation/policies/centres-and-research-institutes-policies-and-procedures-for-the-establishment-of

❖ Procurement Policy
For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/financial/procurement-policy

❖ Postdoctoral Fellows and Visiting Scholars
For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/research/postdoctoral-fellows-and-visiting-scholars

❖ Conflict of Interest
For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/general/conflict-of-interest

❖ Travel Expense Policy
For more information: https://www.lakeheadu.ca/faculty-and-staff/policies/financial/travel-expense-policy

Research Services Forms

All forms concerning Research Services can be found at https://www.lakeheadu.ca/research-and-innovation/forms
Lakehead’s Economic Development and Innovation office (EDI) is responsible for management and commercialization of the University’s intellectual property (i.e. licensing and start-up companies), and the handling of legal and other issues related to IP protection, developing, and marketing. The Office also assists researchers in transferring knowledge and innovations to those outside the University community.

The EDI office is integral in developing and maintaining linkages with research and business partners, including industry, government, and other universities.

The EDI office is responsible for the following main areas: Industry Liaison, Contract & Negotiation Reviews, IP Commercialization Services, Commercialization Funding, and Outreach Activities.

**Industry Research Partnerships**

The EDI office works closely with members of the University community and the University’s partners facilitating interactions between groups of researchers and specific sectors of the non-academic world. By connecting new and established companies with the technologies and resources of Lakehead University, the EDI creates partnerships between Lakehead University researchers and industry in local and global markets. These strategic links generate new investment and long term economic benefits for the University, its industrial partners, and the community.

**Contract Review & Negotiation**

The EDI office drafts and negotiates legal agreements such as:

- intellectual property ownership assignments
- licensing agreements
- industrial grants
- industrial research contracts and related partnership agreements (including conditional purchase orders)
- confidentiality, non-disclosure agreements, and material transfer agreements.
Researchers are always encouraged to contact the EDI office for assistance with negotiating such research agreements as early as possible.

**IP Commercialization Services**

The EDI office offers assistance in each of the five major steps of the IP Commercialization Cycle:

- **Research:** assisting with intellectual property and related clauses in research contracts, and all aspects of industry sponsored research including finding industry partners;
- **Discovery:** helping researchers determine which discoveries to consider moving through the commercialization cycle;
- **Disclosure:** helping researchers create valid invention disclosures, the first step in protecting your discoveries;
- **Evaluation:** a business, intellectual property, and technical evaluation of potential products or services;
- **Commercialization:** including commercialization plan development and implementation, and where appropriate new business creation and support.

**Commercialization Funding**

Several funding programs exist to help move inventions farther down the innovation continuum, from concepts to prototypes to marketable products and/or services. The EDI office is here to assist university faculty and researchers with sourcing potential funding for IP commercialization.

**Outreach Activities**

The EDI office offers seminars and other continuing education periodically on request to faculty, staff, students, and the local community as a whole. Seminars can cover various topics, including intellectual property in general, steps to commercializing technology, and protection of inventions.

For more information about the EDI office and more details about the services we provide, please visit the EDI office website at [https://www.lakeheadu.ca/research-and-innovation/innovation](https://www.lakeheadu.ca/research-and-innovation/innovation) or feel free to contact:

**Economic Development and Innovation**

1294 Balmoral Street, Lower Level
Thunder Bay, ON P7B 5E1

**Florence Bailey**  
Manager, Industry Research Partnerships  
(807) 343-8793  
fbailey@lakeheadu.ca

**Ellen MacKay, M. Ed**  
Acting Manager, Technology Transfer  
(807) 343-8724  
emackay@lakeheadu.ca
Research Centres and Institutes

**Biorefining Research Institute (BRI)**

The BRI’s mandate is to develop cost-effective and environmentally-sound technologies and products from renewable resources as a substitute for imported oil-based fuels and petrochemicals that can create new opportunities for the Bioeconomy. Contact:

Dr. Lew Christopher, Director  
Tel: (807) 343-8844  
Email: lchristo@lakeheadu.ca  
https://www.lakeheadu.ca/research-and-innovation/facilities-centres/bri

**Centre of Excellence for Sustainable Mining and Exploration**

The Centre of Excellence for Sustainable Mining and Exploration will encourage and support research, education and outreach activities regarding the nature and impacts of mineral resource exploration and extraction particularly in Northern Ontario. Contact:

Dr. Peter Hollings, Director  
Tel: (807) 343 8329  
E-Mail: peter.hollings@lakeheadu.ca  
http://cesme.lakeheadu.ca/

**Research Centre for Sustainable Communities (RCSC)**

The general aim of the RCSC is the development of an improved understanding of factors that influence the sustainability of communities. Contact:

Dr. Nandakumar Kanavillil, Director  
Tel: (705) 330-4008 ext. 2633  
Email: nkanavil@lakeheadu.ca  
https://www.lakeheadu.ca/research-and-innovation/facilities-centres/research-centre-for-sustainable-communities
**Centre for Education and Research on Aging & Health (CERAH)**

CERAH’s mission is to advance health and social care for an aging population and promote the health and well-being of people aging across the lifespan. Contact:

Dr. Elaine Wiersma, Director  
Tel: (807) 766-7294  
E-Mail: ewiersma@lakeheadu.ca  
https://www.lakeheadu.ca/research-and-innovation/facilities-centres/cerah

**Centre for Health Care Ethics (CHCE)**

The CHCE is dedicated to promoting ethical health care in Northwestern Ontario. Contact:

Dr. Kristen Jones-Bonofiglio, Director  
Tel: (807) 343-8126  
E-mail: chce@lakeheadu.ca  
http://bioethics.lakeheadu.ca/

**Centre for Northern Studies (CNS)**

The CNS is a senate approved research centre comprised of faculty from various disciplines and programs who are active researchers in the field of northern studies. Contact:

Dr. Chris Southcott, Director  
Tel: (807) 343-8349  
E-mail: chris.southcott@lakeheadu.ca  
https://www.lakeheadu.ca/research-and-innovation/facilities-centres/northern-studies

**Centre for Place and Sustainability Studies**

The purpose of the Centre for Place and Sustainability Studies is to contribute to the wellbeing of people and places. The Centre for Place and Sustainability Studies incubates and supports diverse place and sustainability related research, education, and action initiatives within the Lakehead University community, in the region, and internationally in order to create more socially and ecologically just environments. Contact:

Dr. David Greenwood, Director  
Tel: (807) 766-7193  
E-Mail: david.greenwood@lakeheadu.ca  
http://www.placecentre.org/
Centre for Research on Safe Driving

Our mandate is to contribute to the reduction of traffic-related crashes through the understanding of the fundamental processes that support safe driving and through the development of interventions to optimize safe driving. Contact:

Dr. Michel Bédard, Director  
Tel: (807) 343-8630  
E-mail: michel.bedard@lakeheadu.ca  
http://crsd.lakeheadu.ca/

Centre for Rural & Northern Health Research (CRaNHR)

Our objectives are to contribute to existing knowledge on rural, northern and Indigenous health and provide evidence that supports policy makers, planners and decision-makers in understanding health services delivery; documenting health status and determinants of health; and exploring factors that facilitate or impede access to socially just health care. Additionally, our work addresses education, recruitment and retention of health professionals and paraprofessionals. Contact:

Dr. Pamela Wakewich, Director  
Tel: (807) 343-8353  
Email: pam.wakewich@lakeheadu.ca  
https://www.lakeheadu.ca/research-and-innovation/facilities-centres/rural-northern-health

Centre of Education and Research on Positive Youth Development (CERPYD)

The CERPYD at Lakehead University is focused on generating, disseminating and applying knowledge about children and adolescents and their well-being. Our research specializes in the areas of mental health, addictions, education, and youth justice. Contact:

Dr. Ed Rawana, Director  
Tel: (807)-343-8453  
Email: ed.rawana@lakeheadu.ca  
http://childrenandadolescents.lakeheadu.ca/

Lakehead Social History Institute

The Lakehead Social History Institute is a partnership of historical researchers at Lakehead University and in the Thunder Bay community. The Institute was constituted by meetings of persons interested in historical research. Contact:

Beverly Soloway  
Tel: (807) 343-8581  
Email: shi@lakeheadu.ca
Instrumentation Laboratory

The Lakehead University Instrumentation Laboratory (LUIL) is a multi-purpose, centralized facility which serves researchers and students from various faculties, providing access to the fundamental tools needed for modern research and training. The lab occupies 372 m² of space, which is centrally located on campus.

The Laboratory houses more than two million dollars of research equipment and much of this equipment is unique to the region. Early in its development, the University made a decision to operate single versions of fundamental research tools such as a nuclear magnetic spectrometer, an electron microscope, and spectrometers in a central analytical facility. Sharing of equipment is essential to this strategy. This wide range of instrumentation, which is in first-class condition, is accessible to all members of the University community including undergraduate and graduate students under staff supervision. For more information: [http://lucas.lakeheadu.ca/luil/](http://lucas.lakeheadu.ca/luil/)

The Instrumentation Laboratory is equipped to analyze the composition and structure of a wide range of materials, enabling our staff to provide valuable information towards solving industrial problems. Instrumentation Laboratory External Services is a member of LUCAS and provides accessibility to external users to the laboratory for a fee. Users may visit the laboratory to discuss results or consult with staff by phone. Proprietary information will be kept confidential.

For more information about the Instrumentation Laboratory and more details about the services we provide, please visit the LUIL website at: [http://lucas.lakeheadu.ca/luil/materials-analysis/](http://lucas.lakeheadu.ca/luil/materials-analysis/) or feel free to contact:

Dr. Francis Appoh  
Director, Analytical Testing Services LUCAS/LUIL/PDNA,  
Email: [fappoh@lakeheadu.ca](mailto:fappoh@lakeheadu.ca)  
Phone: (807) 343-8294/343-8853  
Fax: (807) 346-7864

Mr. Mike Sorokopud, Technician  
Email: [msorokop@lakeheadu.ca](mailto:msorokop@lakeheadu.ca)  
Phone: (807) 343-8294 (NMR Laboratory, (807) 343-8468)
Lakehead University Centre for Analytical Services (LUCAS)

Lakehead University Centre for Analytical Services operations have a proven track record in producing timely and accurate reports, allowing users to maintain productivity by responding quickly to production problems. LUCAS facilities are multiple use, providing advanced testing services to regional as well as international clients using the latest in research equipment. The laboratories also welcome Lakehead University’s brightest students providing the necessary training and hands-on access to the technologies of the future allowing them to develop essential skills to further their research careers or to secure jobs in fields that directly impact on Northern Ontario’s economic future.

**LUCAS Administration**

LUCAS provides administrative, marketing support to member laboratories. Researchers who might be interested in attracting clients by providing services to commercial companies are encouraged to contact the Director of Analytical and Research Services.

For more information see [http://lucas.lakeheadu.ca/](http://lucas.lakeheadu.ca/)

New faculty members are encouraged to contact:

Dr. Francis Appoh  
Director, Analytical Testing Services LUCAS/LUIL/PDNA, 343-8853  
Email: fappoh@lakeheadu.ca

or any of the individual laboratory Directors for information about the services they offer.

The following research facilities are members of LUCAS:

**Aquatic Toxicology Research Centre (ATRC)**

The Aquatic Toxicology Research Centre is an aquatic facility that supports research into the evaluation and prevention of toxic effects from industrial wastes in the environment. The ATRC also offers a full range of toxicity testing services to both industry and government, designed to meet current regulatory requirements. These services currently include acute testing with rainbow trout and daphnia, as well as Toxicology Identification and Evaluation [TIE] and Toxicity Early Warning system [TEW]. ATRC is accredited to ISO17025 by the Canadian Association for Laboratory Accreditation (CALA) (see [www.cala.ca](http://www.cala.ca) directory for a list of tests). Contact:

Dr. Peter Lee, Academic Director  
Tel. (807) 343-8662  
Email: peter.lee@lakeheadu.ca
Biotechnology Laboratory for Enzymes and Bioproducts (BLEB)
BLEB focuses on applied biotechnological analytical services in bioproduct analysis, biodegradation studies, enzyme assay, microbiology and aspects of molecular biology. Contact:

Dr. Wensheng Qin, Director
Tel: (807) 343-8467
Email biotechnologylab@gmail.com
http://lucas.lakeheadu.ca/bleb/

Biomass Utilization Research Laboratory (BURL)
The Lakehead University Biomass Utilization Research Laboratory offers access to the unique pulping research facilities in the Chemical Engineering Department at Lakehead University. The lab contains similar equipment located at pulp and paper mills, as well as equipment that is able to recreate the pulping process. Though the facility is highly involved in research, its facilities are excellent for sampling and testing. Contact:

Dr. Pedram Fatehi, Director
Tel. (807) 343-8697
Email: pfatehi@lakeheadu.ca

Forest Resources and Soils Testing Laboratory (FoReST)
The FoReST Lab offers testing of a wide range of forest resources (e.g. vegetation, organic matter, peat) including soils. Information derived is useful to land managers in the identification of prime sites and when considering the impacts of management activities such as road location, harvesting, regeneration and tending. Nutrient status reports assist nursery operators, seed orchard, and farm managers to determine appropriate fertilization applications or other amendments (e.g. pH adjustment, CEC, etc.). Assistance in sampling protocols and design is also available. We provide farmers and home owners with OMAFRA fertilizer recommendations for agricultural, home garden, and lawn care purposes. Contacts:

Dr. Nancy Luckai, Co-Director
Tel. (807) 343-8624
Email: nancy.luckai@lakeheadu.ca

Dr. Lense Meyer, Co-Director
Tel. (807) 343-8445
Email: leni.meyer@lakeheadu.ca
Lakehead University Molecular Archaeochemistry and Residue Services (LUMARS)

LUMARS research and services involve genetics method development. Emphasis on biological remains that have proved challenging to recover biomolecules from using conventional methods. LUMARS Services involve design and development of methods to retrieve macromolecules of interest from degraded remains. This has applications in numerous fields - principally archaeology, forensic and medical science. Contact:

Dr. Carney Matheson, Director
Tel: 807-343-8743
Email: carney.matheson@lakeheadu.ca
http://lucas.lakeheadu.ca/lugen/

Lakehead University Geospatial Data Centre (LUGDC)

Lakehead University Centre for Analytical Services welcomed a new lab into its fold in 2012; Lakehead University Geospatial Data Centre or LUGDC. The new lab plans to offer services associated with geospatial data mapping. LUGDC has equipment consisting of a large area scanner, GPS units, GPS digital cameras, large format scanner and tablets with GIS software in the Geography Department. The heart of the Geospatial Data Centre is a geospatial server and a growing collection of regional, national and international spatial data. Services will include: map creation, data acquisition, spatial analysis, and image analysis, Contact:

Dr. Robert Stewart, Director
Tel: 807-343-8548
Email: rob.stewart@lakeheadu.ca
http://lucas.lakeheadu.ca/lugdc

Lakehead University Environmental Laboratory (LUEL)

Established in 1995, the Environmental Laboratory offers multi-parameters testing of soils, sediments, biological tissues, vegetation, waters, and specific chemicals. LUEL also conducts field investigations for water quality, wetlands, and environmental effects monitoring. The laboratory focuses on developing analytical methods to fit specific requirements. The laboratory provides hands-on training of undergraduate and graduate students. LUEL is also accredited to ISO17025 by the Canadian Association for Laboratory Accreditation (CALA) for many water tests, and mercury, methylmercury and metals in biological samples (see http://www.caladirectory.ca for a list of tests). Contact:

Dr. Peter Lee, Director
Tel. (807) 343-8368
Email: peter.lee@lakeheadu.ca
Lakehead University Instrumentation Laboratory (LUIL)
The Lakehead University Instrumentation Laboratory is a multi-purpose, centralized facility which serves researchers and students from three faculties, providing access to spectrometers, electron and laser microscopes, and analyzers needed for modern research and training of Canada’s future scientists. The Laboratory manages some of the University’s most advanced research equipment, much of which is unique to the region. The LUIL provides extensive, hands-on training programs in the use of SEM/EDS, NMR, CONFOCAL, FTIR, ICP, and XRD systems to students before they begin their research projects. The facility is supported and used by regional resource and health care industries as well as government agencies for multi-party projects in the fields of mineral exploration, process control, cancer diagnosis, and bio-remediation.
Contact:
Dr. Francis Appoh, Director, Analytical Testing Services
LUCAS/LUIL/PDNA
Email: fappoh@lakeheadu.ca
Phone: (807) 343-8294/343-885

Lakehead University Materials Characterization Services (LUMCS)
Comprehensive chemical consulting services with specialization in:
- Chemical analysis and materials characterization
- Fabrication of thin films and nanostructured materials
- Electrochemical and optical property measurements
- Atomic force microscopy
- Quantum chemical assessment of molecular properties
- Molecular design High quality molecular graphics
- Aqueous silicon/silicate chemistry
Contacts:
Dr. Aicheng Chen, Co-Director
Tel. (807) 343-8318
Email: aicheng.chen@lakeheadu.ca

Dr. Stephen Kinrade, Co-Director
Tel. (807) 343-8683
Email: stephen.kinrade@lakeheadu.ca

Dr. Robert Mawhinney, Co-Director
Tel. (807) 343-8245
Email: rcm@lakeheadu.ca

Lakehead University Mineralogical and Experimental Laboratory (LUMINX)
LUMINX is designed to serve as a bridge between the minerals industry and university researchers by providing advanced mineralogical and geochemical services that are not routinely available from commercial firms:
- Quantitative or qualitative phase and chemical composition analysis of solids
- Mineralogical/petrographic assessment of geological samples
- Fluid inclusion microthermometry
- Characterization of gold- and platinum group-bearing phases, sulphides, and diamond indicator minerals
- Analysis of high-tech and industrial minerals, and mineral synthesis
- Compositional analysis of natural and synthetic glasses
- Solubility testing of natural and synthetic materials

Contact:
Dr. Andrew Conly, Director
Tel. (807) 343-8463
Email: andrew.conly@lakeheadu.ca

Lakehead University Wood Science Testing Facility (LUWSTF)
The LUWSTF offers state-of-the-art testing for the mechanical properties of wood and wood products. The lab can also do hot press runs for composite research as well as large ovens for physical property research projects. A new Bomb Calorimeter was purchased and the lab now conducts BTU testing for several industries. Wood identification is also conducted in the labs for various clients as are other consultancy projects. Currently the facilities are undergoing a major capacity building exercise with new state-of-the-art testing and scale manufacturing equipment as well as staffing increases and postgraduate student number increases. The LUWSTF has also begun a portable wood processing technologies program to aid communities in becoming involved in the value-added forest sector and to promote small scale manufacturing of value-added products. To this end the LUWSTF has recently purchased a Wood Mizer Portable Bandsaw mill and also purchased a portable twin edger and kiln. There is also a new area being studied within forestry and also in collaboration with the Green Energy Lab in Chemical Engineering where bio-products utilizing wood waste are being studied. This includes bio-fuels, bio-energy and also bio-chemicals; for example, one project is looking at wood waste to produce bio-resins to use in the laminate industry.

Contact: Dr. Mathew Leitch, Director
Tel. (807) 343-8659
Email: mathew.leitch@lakeheadu.ca

Paleo-DNA Laboratory (PDNA)
The Paleo-DNA Laboratory is one of the top ancient DNA research laboratories in the world. The laboratory is specifically designed to accommodate low-copy number, degraded, or ancient samples and vigorously control contamination. This laboratory provides academic support to faculty and students of Lakehead University as well as extension services to the public in the form of paternity testing, universal genetic identification, canine DNA testing, and ancient DNA analysis. The Paleo-DNA Laboratory is also a leader in human mitochondrial DNA research and was one of the first Canadian laboratories to develop mitochondrial DNA analysis techniques. They
were also the first laboratory to offer a DNA training course emphasizing mitochondrial DNA analysis. Contacts:

Dr. Francis Appoh  
Director, Analytical Testing Services LUCAS/LUIL/PDNA  
Email fappoh@lakeheadu.ca  
Phone: (807) 343-8294/343-8853,  
Fax: (807) 346-7864  

Stephen Fratpietro, Technical Manager  
Tel. (807) 343-8853  
Email: swfratpi@lakeheadu.ca