

2021 Annual Report on Advancing the United Nations Sustainable Development Goals





Lakehead University's 2018-2023 Strategic Plan and 2019-2024 Academic Plan both articulate the University's longstanding commitments to advancing the United Nations Sustainable Development Goals.

Specifically, Lakehead's Academic Plan acknowledges that many social, economic, and environmental changes are magnified in the communities Lakehead serves, presenting real world challenges that Lakehead is well positioned to help address through innovative approaches to teaching, learning, research, and expanded community partnerships that are focused on developing the next generation of leaders equipped with the skills and experience required to address global challenges.

This presents an opportunity for Lakehead to develop regional education ecosystems in Northwestern Ontario and Simcoe County through expanded partnerships that align to these "grand" societal challenges, positioning Lakehead as a beacon, both locally and globally, as a leader in sustainability, social justice, and Indigenous education.

Lakehead's locations in Northwestern Ontario and Simcoe County provide a unique and profound perspective on the multi-dimensional aspects of sustainability, including human and ecological health, culture and Indigenous rights, social justice, secure livelihoods, and workplace well-being. Lakehead's Thunder Bay campus is situated beside one of the world's largest freshwater lakes, Lake Superior, and next to the boreal forest, uniquely positioning it to contribute a northern voice to critical discussions on sustainability.

Lakehead University recognizes the achievement of the Sustainable Development Goals requires cross-sector collaboration. Success is dependent on a collective working together to advance solutions through sharing of resources, knowledge and expertise, and development of innovative partnerships to advance pioneering solutions to these global challenges.

Finally, recognizing the importance of knowledge exchange in support of advancing the goals, included in this report is an overview of how Lakehead is advancing each of the SDGs through data, measurement, partnerships, and operations.



1 NO POVERTY



Lakehead University's campuses are located in regions in which the median income is below the provincial and national average. As one of the largest employers, post-secondary institutions and economic hubs in Northwestern Ontario and Simcoe County, Lakehead University has a direct impact on the economic and social resiliency in the regions it serves.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

43%

of domestic undergraduate students at Lakehead receive financial aid (2020/21) \$11+ M

in scholarships and bursaries are provided by Lakehead annually to support student access (2021/22) 54%

of domestic undergraduate students at Lakehead are from rural/northern communities (2020/21)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

21

publications related to this SDG were authored by members of the Lakehead community (2019-2021) 2

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 2

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP



Local & Regional

Impacts of cancelling Ontario's Basic Income Pilot

Dr. Ravi Gokani, in collaboration with Kinna-awaya Legal Clinic, initiated a study on the local impact of cancelling Ontario's Basic Income pilot in response to community need. https://cutt.ly/mNSsNP0



National

Putting rural homelessness on the radar

Dr. Rebecca Schiff leads research projects analyzing data from service agencies in rural and remote regions across Canada.

https://cutt.ly/zNSd7IB



Global

A policy and decisionmaking framework for South African doctors during the COVID-19 pandemic

Dr. Kristen Jones-Bonofiglio develops a framework to support South African doctors make difficult ethical decisions during the COVID-19 pandemic.

https://cutt.ly/KNSfBaP

OPERATIONS

Plans & Commitments

- · Lakehead University Strategic Plan
- · Lakehead University Academic Plan
- · Universities Canada Principles on Social Impact

Operations

- · Lakehead University Student Central
- · Lakehead University Indigenous Student Services Centre
- Lakehead International
- · Tuition Waiver for Youth in Care



HUNGFR



Recognizing food is a key element of sustainable development, Lakehead University is actively contributing to end hunger, achieve food security and improved nutrition in rural and remote communities, and is promoting sustainable agricultural practices through partnerships with local farmers. Lakehead University has also joined forces with its student union and community partners to support the LUSU Food Bank to support food security on campus.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

~380

learners are studying agriculture programs at Lakehead University each year (2017-2021)

~455

graduates of agriculture programs at Lakehead University over the past 5 years (2017-2021)

Lakehead University Agricultural Research Station

uses small-plot research to introduce and assess crop varieties and agricultural management practices

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

publications related to this SDG were authored by members of the Lakehead community (2019-2021)

Lakehead University Research Chairs are conducting focused research related to this SDG (2021)

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

Food Security Committee

is a collaboration between Student Affairs, student groups and administration, offering support programs including a food bank, food pantry, and weekly free hot lunch program to students

LUSU Food Bank

provides assistance to students who need support through donations and through oncampus garden and greenhouse projects

Community Campus Garden

offers individuals and groups from the community an opportunity to grow their own food on the Lakehead Thunder Bay campus

OPERATIONS

Plans & Commitments Lakehead University Strategic Plan Lakehead University Academic Plan Lakehead University Wellness Plan Lakehead University Sustainability Action Plan **Policies** Lakehead University Supply Chain Code of Ethics Operations Lakehead University Greenhouse · Lakehead Community Gardens (located at Lakehead Thunder Bay and Lakehead Orillia campuses) · Lakehead University Student Central Lakehead University Indigenous Student Services Centre

Lakehead

Lakehead

Lakehead International

3 GOOD HEALTH AND WELL-BEING



Lakehead University recognizes that ensuring healthy lives and promoting well-being at all ages is essential to sustainable development. Lakehead supports advancement of SDG 3 through the development of health human resources, through extensive research and outreach related to health in the regions we serve, partnering with local, regional and national partners, and by reviewing and changing our own practices.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

~1,900

learners are studying health programs at Lakehead University (2020/21) 2,700+

graduates of health programs at Lakehead University over the past 5 years (2017-2021) 97%

of learners in health programs at Lakehead faced at least one barrier to accessing university (2020/21)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

436

publications related to this SDG were authored by members of the Lakehead community (2019-2021) 7

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 7

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP



Local

Charting a course to treat childhood trauma

Dr. Chris Mushquash examines the links between childhood trauma and physical and mental health issues to identify improved wellness programming https://cutt.ly/hNSzdNA



National

Online mental health intervention system for First Nations communities

Dr. Elaine Toombs evaluates the development and implementation of virtual, culturally-relevant mental health interventions to address accessibility related to substance use https://cutt.ly/gNSlkwu



Global

International collaboration tackling new approach to HIV

Dr. Pauline Sameshima is part of an international team of researchers to try a new strategy for curing HIV https://cutt.ly/HNSQzTN

Plans & Commitments	Signatory to the Okanagan CharterLakehead University Wellness Strategy
Policies	 Lakehead University Smoking on Premises Policy Lakehead University Recreational Cannabis on Premises Policy Lakehead University Indigenous and Aboriginal Cultural Ceremonies Policy
Operations	 Lakehead University Student Health and Wellness Lakehead University Student Central Lakehead University Indigenous Student Services Centre

4 QUALITY EDUCATION



Lakehead's Academic Plan outlines the University's belief in the transformational power of education, not only for the individual, but because of the broader impact of education in shaping the world around us. Lakehead is committed to continuing to provide access, equity and supports necessary for diverse learners to realize their potential while developing leaders and changemakers who will inform solutions to challenging real world.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

~1365

learners are studying education programs at Lakehead to gain the qualification to teach primary school each year (2017-2021) 1,930+

graduates with a qualification to teach primary school from Lakehead University over the past 5 years (2017-2021) 43%

of domestic undergraduate students at Lakehead are first generation (first in their family to attend university, 2020/21)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

39

publications related to this SDG were authored by members of the Lakehead community (2019-2021) 4

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 9

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

198 Achievement Program participants

Students in grades 4-12 participated in academic and recreational programming, both at their school, the community and on campus at Lakehead University through the Lakehead Achievement Program (2020/21)

1,425 participants in Third Age Learning

events hosted by the Lakehead University Office of Community Engagement and Lifelong Learning (CELL, 2020/21) Partnered with
Anishnabek
Employment and
Training Services to
bring Humanities 101 to nine

bring Humanities 101 to nine Indigenous communities (2020/21)

Plans & Commitments	Lakehead University Equity, Diversity and Inclusion Action Plan
Policies	 Lakehead University Harassment and Discrimination Policy and Procedures Lakehead University Accommodations and Access for Students with Disabilities/Medical Conditions Policy
Operations	Lakehead University Student Central Lakehead University Indigenous Student Services Centre Lakehead International



5 GENDER EQUALITY



Recognizing gender equality is a fundamental human right, and a foundation for a peaceful, prosperous and sustainable world, Lakehead University is committed to providing women and girls with equal access to education and professional opportunities, while also supporting gender equality in the communities we serve.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

56%

of students enrolled in undergraduate and graduate programs at Lakehead are female (2020/21)

31%

of students in undergraduate and graduate STEM programs are female (2020/21)

6.700 +

credentials awarded to female students over the past five years (2017-2021)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

36

publications related to this SDG were authored by members of the Lakehead community (2019-2021)

6

Lakehead University Research Chairs are conducting focused research related to this SDG (2021)

7

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

Superior Science

runs *Girls Club*, providing hands-on STEM activities and mentorship to girls in grade 2 to 7

36%

of full-time faculty at Lakehead are female (2021/22)

Nanabijou Child Care Centre

at Lakehead Thunder Bay provides childcare for children ranging from infancy to school age

Plans & Commitments	 Lakehead University 2018-2023 Strategic Plan Lakehead University 2019-2024 Academic Plan Lakehead University Equity, Diversity and Inclusion Action Plan
Policies	 Employment Equity Sexual and Gender Based Violence Response Policy Name and Gender Identifier Change Policy and Procedures Workplace Leaves of Absences Employee Code of Conduct Harassment and Discrimination Policy and Procedures
Operations	Office of Human Rights and Equity Gender Equality Centre



6 CLEAN WATER AND SANITATION



Clean water is vital to the health of agriculture, aquaculture and to society. Lakehead University is actively working, through teaching, learning and research partnerships, to ensure access to water and sanitation.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

1,350+

learners are studying programs in fields related to clean water and sanitation at Lakehead University (2020/21) 2,000+

graduates of programs in fields related to clean water and sanitation at Lakehead University over the past 5 years (2017-2021) 400+

International graduates of programs in fields related to clean water and sanitation at Lakehead University over the past 5 years (2017-2021)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

60

publications related to this SDG were authored by members of the Lakehead community (2019-2021) 5

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 8

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP



Local

Monitoring sewer pipes finds savings down the line Dr. Amir Azimi develops a

wireless tool for the City of Thunder Bay to improve inspection of its network of underground sanitary pipes https://cutt.ly/TNST7AF



Regional

Testing shines a light on effectiveness of UV lamps

Dr. Siamak Elyasi analyzes the performance of ultraviolet lamps used to disinfect wastewater before being released into Lake Superior https://cutt.ly/hNSUNbD



National & Global

Lakehead joins the Great Lakes Plastic Cleanup

Dr. Michael Rennie provides critical data to understand extent of plastic pollution around Great Lakes basin https://cutt.ly/pNSITXd

International Institute for Sustainable Development-Experimental Lakes Area https://cutt.ly/wNSOdwa

Plans & Commitments	Lakehead University Sustainability Action Plan
Policies	Lakehead University Orillia Bottled Water PolicySustainable Building Policy
Facilities	Water-conscious plantingBraun Building Rain Garden

7 AFFORDABLE AND CLEAN ENERGY



Energy is central to nearly every major challenge and opportunity the world faces today and access to energy for all is essential. Lakehead University is actively promoting and supporting clean energy initiatives through research, outreach, and by changing our own behaviours and practices in areas including investments and usage.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

~1,275

learners are studying programs related to affordable and clean energy at Lakehead University (2020/21) 2,450+

graduates of programs in fields related to affordable and clean energy at Lakehead University over the past 5 years (2017-2021) ~475

graduates of programs in fields related to clean water and sanitation at Lakehead University over the past 5 years are from lower income countries (2017-2021)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

162

publications related to this SDG were authored by members of the Lakehead community (2019-2021) 4

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 9

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP



ocal & Regional

Low energy nuclear fusion reactions

Dr. Dimiter Alexandrov explores a new sustainable energy source that does not produce carbon emissions or radioactive waste https://cutt.ly/0NSSt2Y Designing

National

Designing the next generation of wind energy conversion systems

Dr. Qiang Wei develops cutting-edge wind technologies for Canada's next generation wind energy industry https://cutt.ly/fNSDNMX



Global

Research helping to improve the efficiency of motors

Dr. Mohammad Nasir Uddin, a Fellow of the Institute of Electrical and Electronics Engineers recognized for contributions to control techniques for altering AC motor drives.

https://cutt.ly/yNSHe3O

Maximizing Solar PV System

Dr. Basel Ismail improves efficiency of PV system used by gold mine sites in the region https://cutt.ly/TNSS0E6

OPERATIONS

Plans & Commitments

- Responsible investment policy
- · Lakehead University Sustainability Action Plan
- Conservation and Demand Management Plan

Policies

- Lakehead University Sustainable Building Policy
- Lakehead University Responsible Investment Policy



DECENT WORK AND ECONOMIC GROWTH



Decent work in safe and stable conditions is a vital component to a strong, healthy and resilient society. Lakehead University, as an employer, as a learning institution, and as a partner, is embracing its role in helping develop new and fairer ways of working, and in positively influencing economic development in local communities.

SUPPORTING ECONOMIC GROWTH IN THE REGIONS WE SERVE

\$1.64 B

total economic impact of Lakehead University on Ontario's GDP (2020/21) \$1.44 B

Total economic impact of Lakehead Thunder Bay on Ontario's GDP (2020/21) \$201 M

Total economic impact of Lakehead Orillia on Ontario's GDP (2020/21)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

27

publications related to this SDG were authored by members of the Lakehead community (2019-2021)

5

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 8

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

45.2%

of students participated in a professional practicum local industry partners (2020/21) 84.3%

of Lakehead's undergraduate students participated in Work Integrated Learning (2020/21) 100%

partnerships and research agreements between with researchers,

industry, government and non-profits organizations.

of undergraduate students have an experiential learning opportunity (2020/21)

Plans & Commitments	Lakehead University Equity, Diversity and Inclusion Action Plan
Policies	 Harassment and Discrimination Policy and Procedures Diversity Awareness Employment Recruitment Supply Chain Code of Ethics Employment Equity Employee Code of Conduct
Operations	 Lakehead Career Zone offers resume building supports, job searching services, interview preparation and career exploration resources for students. The Office of Innovation, Partnerships and Economic Development promotes the establishment of industry-academic research



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Lakehead University is facilitating entrepreneurship throughout Northwestern Ontario and Simcoe County in an innovative, sustainable and culturally appropriate way. This includes modeling behaviours that support innovation and working with local and global industry partners to advance teaching, learning and research partnerships and community development in support of culturally appropriate and environmentally sustainable social and economic objectives.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

625+

learners studied business and entrepreneurship programs at Lakehead University in 2020/21 1,000+

graduates of business and entrepreneurship programs at Lakehead University over the past 5 years (2017-2021) Magnet Student Work Placement Program

supporting 88 students (2020/21)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

56

publications related to this SDG were authored by members of the Lakehead community (2019-2021)

5

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) **17**

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

President's Advisory Council on Economic Development

advises the President of Lakehead University of opportunities within the regional economic development ecosystem with a focus on strategic partnerships with local communities, municipalities, business, and industry in Simcoe County

173

research partnerships with municipalities, government, research institutes & industry (2020/21) \$20,796,369

in total research income awarded to Lakehead University (2020)

OPERATIONS

Plans & Commitments	 Lakehead University Strategic Plan Lakehead University Academic Plan President's Advisory Council on Economic Development
Policies	Research Integrity Policy and ProceduresIntellectual Property Policy
Operations	Ingenuity (student incubator space) Teaching Innovation Award

Research and Innovation Week

10 REDUCED INEQUALITIES



Recognizing equality needs to underpin every aspect of sustainability if the Sustainable Development Goals are to be successfully advanced, Lakehead University has a longstanding commitment to social justice, to access and equity to postsecondary education, and to supporting diverse learners achieve their potential. Lakehead University has made an explicit commitment to equity, diversity and inclusion in the interest of providing an inclusive, equitable and accessible environment in its University community, and is actively partnering to advance research and knowledge exchange in this area.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

94%

of domestic undergraduate students at Lakehead face barriers to accessing university education (2020/21) 54%

of domestic undergraduate students at Lakehead are from rural/northern communities (2020/21) 12%

of Lakehead's domestic student population self identifies as Indigenous (2020/21)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

47

publications related to this SDG were authored by members of the Lakehead community (2019-2021)

8

Lakehead Research Chairs are conducting focused research related to this SDG (2021) 9

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

16%

of Lakehead's student body are international students from 70+ countries (2020/21)

2,200

Lakehead International

students participated in the Niijii Mentorship Program despite COVID-related mobility restrictions (2020/21) 97.7%

of graduates are employed within 2 years of graduation from baccalaureate program (2020/21)

Plans & Commitments	 Lakehead University Equity, Diversity and Inclusion Action Plan Lakehead University Strategic Plan Lakehead University Multi-Year Accessibility Plan Accessibility @ Lakehead University
Policies	 Harassment and Discrimination Policy and Procedures Accommodations and Access for Students with Disabilities/Medical Conditions Policy Provision of University Goods and Services to Persons with Disabilities Accommodation for Employees with Disabilities Policy (temporary and permanent, work/non-work related)
Operations	Office of Human Rights and Equity Student Central Indigenous Student Services Centre

11 SUSTAINABLE CITIES AND COMMUNITIES



As a comprehensive regional university, Lakehead recognizes its role in supporting positive interactions and supporting learning, knowledge creations knowledge exchange and collaboration in support of strong, resilient, and sustainable communities. This includes Lakehead University's continued efforts to address the Truth and Reconciliation Commission Calls for Action through education and dialogue inside and outside the classroom, creating opportunities to maintain and showcase music, art, artifacts, culture, language, and Indigenous knowledge on behalf of the community, and contributions to the ongoing development of community-engaged scholarship.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

~4,250

learners are studying programs in fields such as engineering, science, health and social sciences at Lakehead University (2020/21) 6,670+

graduates of programs in fields such as engineering, science, health and social sciences at Lakehead University over the past 5 years (2017-2021) 77.1%

of Lakehead's undergraduate students participated in Community Service Learning (2020/21)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

57

publications related to this SDG were authored by members of the Lakehead community (2019-2021) 8

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 13

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

"When History Hurts: A Community Dialogue"

hosted by Lakehead and attended by over 300 households to discuss residential schools and the role of the individual in truth and reconciliation.

Research and Innovation Week

In Thunder Bay and Orillia focused how Lakehead University research projects, innovative collaborations and initiatives are playing a role in the achievement of the United Nations 17 Sustainable Development Goals (SDGs).

Maamawi Bimosewag – They Walk Together law

and justice institute launched at Lakehead Bora Laskin Faculty of Law with support from Indigenous partner communities and organizations, and the federal government.

OPERATIONS

Plans & Commitments

- · Lakehead University Equity, Diversity and Inclusion Action Plan
- · Lakehead University Sustainability Action Plan

Policies

- Lakehead University Moving/Travel Allowances
- · Lakehead University Sustainable Building Policy



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Lakehead University recognizes that for the world to develop sustainably and responsibly, we need to be more responsible about not only how we consume goods, but also how we produce goods. Through dedicated programming in areas such as Engineering, Sustainability and Social Justice, and through operationalization of commitments in the University's Sustainability Action Plan, Lakehead is developing a community focused on efficient use of resources and the minimization of waste.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

~325

learners are studying programs related to responsible consumption and production at Lakehead University (2020/21) 540+

graduates of programs in fields related to responsible consumption and production at Lakehead University over the past 5 years (2017-2021) Lakehead University Agricultural Research Station

conducts research on a number of crops and crop varieties and beneficial management practices in its operational areas

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

53

publications related to this SDG were authored by members of the Lakehead community (2019-2021) 5

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 6

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

310 mt

of waste was recycled (2021)

166 mt

of waste was sent to landfill (2021)

Green Thread

is an environmental sustainability strategy used by Lakehead University campus food services provider focusing on reducing the environmental impact by responsible sourcing, waste minimization, and operational efficiency

OPERATIONS

Plans & Commitments

- Lakehead University Sustainability Action Plan
- Lakehead University Sustainability Plan Progress Report
- Aramark Green Thread

Policies

- Lakehead University Procurement Policy
- · Lakehead University Hazardous Waste Disposal Standard
- Lakehead University Waste Disposal
- · Lakehead University Orillia Bottled Water Policy
- · Lakehead University Supply Chain Code of Ethics





Science demands a dramatic reduction in greenhouse gas emissions in each year of this decade to avoid the worst of human-caused climate change and to reduce the impact of climate change among the world's poorest populations. Lakehead University recognizes its role in acting to address climate issues through research, partnerships, stewardship in its own behaviours such as reducing carbon use, knowledge creation and exchange, and through education.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

2,800+

learners are studying programs in fields related to climate action at Lakehead University (2020/21)

3,870+

graduates of programs in fields related to climate action at Lakehead University over the past 5 years (2017-2021)

400+

graduates of programs in fields related to climate action at Lakehead University over the past 5 years (2017-2021) selfidentify as Indigenous

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

62

publications related to this SDG were authored by members of the Lakehead community (2019-2021)

Lakehead University Research Chairs are conducting focused research related to this SDG (2021)

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

The Thunder Bay RAP program is being

facilitated by Lakehead University under the supervision and guidance of **Environment and Climate** Change Canada, the Ontario Ministry of the Environment and Climate Change, and the Ministry of Natural Resources and Forestry.



National Climate change education policy in Canada

Dr. Ellen Field analyzes national data on climate change education informing policies on climate change education for Ministries of Education and school boards across Canada https://cutt.ly/yNSB1Qf

~187,195 GJ

of energy was used from lowcarbon sources (2021)

OPERATIONS

Plans & Commitments

- · Lakehead University Sustainability Action Plan
- · Lakehead University Conservation and Demand Management
- Board of Governors commitment to divest from Fossil Fuels by 2023

Policies

Lakehead University Sustainable Building Policy



14 LIFE BELOW WATER



Lakehead University, located on the north shore of Lake Superior and in the midst of the boreal forest, has a unique role to play in contributing to the advancement of SDG 14, Life Below Water. Through dedicated programming focused on developing future leaders in areas such as water resource management, collaborative local and international research partnerships, and ongoing community education, Lakehead University is supporting the protection and enhancement of aquatic ecosystems.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

~1,475

learners are studying programs in fields related to life below water at Lakehead University (2020/21) 2,170+

graduates of programs in fields related to life below water at Lakehead University over the past 5 years (2017-2021) 140+

graduates of programs in fields related to life below water at Lakehead University over the past 5 years (2017-2021) selfidentify as Indigenous

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

18

publications related to this SDG were authored by members of the Lakehead community (2019-2021)

2

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 8

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

Thunder Bay Remedial Action Plan (RAP) is facilitated by

Lakehead, in partnership with Environment & Climate Change Canada, Ontario's Ministry of the Environment, Conservation and Parks and the Ministry of Northern Development, Mines, Natural Resources and Forestry. Through the RAP, Lakehead builds awareness of restrictions on fish consumption, negative pressures on fish populations and loss of species diversity.

International Institute for Sustainable Development-Experimental Lakes Area

is an exceptional natural laboratory comprised of 58 small lakes and their watersheds located in a remote region of Northwestern Ontario. Lakehead and the IISD-ELA have a collaborative partnership that facilitates research collaboration on whole ecosystems.

Lake Superior Living Labs Network

supports programs on an ongoing basis to bring sustainability solutions to life through community-engaged teaching, research, and action across the Lake Superior watershed. In 2021,Lake Superior Living Labs Network hosted sessions exploring these questions called Climate Justice Across the Lake Superior Watershed.

OPERATIONS

Plans & Commitments

Lakehead University Sustainability Action Plan

Policies

- Lakehead University Sustainable Building Policy
- Lakehead University Hazardous Waste Disposal Standard
- Lakehead University Orillia Bottled Water Policy



15 LIFE ON LAND



Lakehead University, located on the north shore of Lake Superior and in the midst of the boreal forest, has a unique role to play in contributing to the advancement of SDG 15, Life on Land. Through dedicated programming focused on developing future leaders in areas including natural resources management, and environmental studies, and through collaborative local and international research partnerships, and ongoing community education, Lakehead University is actively contributing to sustainably manage forests, halt and reverse land degradation, and halt biodiversity loss.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

~1,575

learners are studying programs in fields related to life on land at Lakehead University (2020/21) 2,280+

graduates of programs in fields related to life on land at Lakehead University over the past 5 years (2017-2021) 100+

students participated in the Ontario Master Naturalist program offered by Lakehead University

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

71

publications related to this SDG were authored by members of the Lakehead community (2019-2021) 3

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 14

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / PROGRAMS

Office of Sustainability

offers free educational programs including sustainability and foraging walks that educate students and the public on Lakehead's commitment to a sustainable campus and protecting local ecosystems

Demonstration

facilities: Lakehead

University is building research strengths in wood product processing and transformation through demonstration facilities and research labs such as its Biorefining Research Institute (BRI)

Claude Garton Herbarium

monitors and collects information on species in Northwestern Ontario, and in national and global boreal ecosystems. The herbarium is expanding botanical knowledge by participating in the global citizen science program iNaturalist.

OPERATIONS

Plans & Commitments

• Lakehead University Sustainability Action Plan

• Lakehead University Procurement Policy

- Lakericad Oniversity Procurement Policy
- Lakehead University Sustainable Building PolicyLakehead University Orillia Bottled Water Policy
- · Lakehead University Hazardous Waste Disposal Standard
- Lakehead University Biosafety Committee Terms of Reference

Lakehead





To advance the United Nations Sustainable Development Goals, institutions must be positioned to focus on delivering on the SDGs. Lakehead University is actively contributing to the advancement of SDG 16, Peace, Justice and Strong Institutions, through dedicated programming in fields such as Law and Social Justice, while also leading knowledge exchange, dialogues and teaching and research partnerships with members of the community, government agencies and non-government organizations to advance policies that support the realization of the Sustainable Development Goals.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

~590

learners are studying law and enforcement related programs at Lakehead University each year

730+

students have graduated from law and enforcement related programs over the past five years (2017-2021)

100%

of undergraduate programs at Lakehead University include Indigenous content and learning (2020/21)

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

55

publications related to this SDG were authored by members of the Lakehead community (2019-2021)

6

Lakehead University Research Chairs are conducting focused research related to this SDG (2021)

9

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP



Local

Climate Change Action Dr. Lindsay Galway and other Lakehead researchers provide

Lakehead researchers provide advice to the City of Thunder Bay's Earthcare Group, informing local policy development for the municipality on sustainability and climate adaption

https://cutt.ly/DNSC2fr



Regional

Strengthening Sustainable Northern Food Systems: Federal Policy Constraints & Opportunities

Dr. Charles Levkoe explores how Canadian federal policy and frameworks can better support community-based initiatives to reduce food insecurity https://cutt.ly/kNSV9RK



National

Advancing Truth and Reconciliation in Canada

Dr. Cynthia Wesley-Esquimaux, Chair in Truth and Reconciliation, serves as an ambassador for reconciliation at a national level through focused projects and workshops for diverse groups and government organizations https://cutt.ly/6N7yBqV

Plans & Commitments	 Lakehead University Board of Governors By-Laws Ogimaawin-Aboriginal Governance Council By-Laws Lakehead University Aboriginal Management Council 	
Policies	 Lakehead University Free Expression Policy Lakehead University Supply Chain Code of Ethics Lakehead University Employee Code of Conduct Lakehead University Student Code of Conduct – Non-Academic 	
Operations	 Lakehead University Student Union (LUSU) Lakehead University Faculty Association (LUFA) 	I ak

17 PARTNERSHIPS FOR THE GOALS



Lakehead University recognizes the achievement of the Sustainable Development Goals requires cross-sector collaboration. Success is dependent on a collective working together to advance solutions through sharing of resources, knowledge and expertise, and development of innovative partnerships to advance pioneering solutions to these global challenges. Lakehead University supports the realization of the Sustainable Development Goals through collaboration and partnership between institutions, government, industry, community and Indigenous partners, through stewardship, and ongoing publication of data and evidence.

SUPPORTING ACCESS TO POST SECONDARY EDUCATION

44%

of domestic undergraduate students have transferred from another institution to study at Lakehead (2020/21) Lakehead Georgian
Partnership offers
students the opportunity to
graduate with both a college
diploma and a university
degree in a four-year period

All Nations Nurses Entry Program

delivered with Seven Generations Education Institute encourages learners to pursue careers as Registered Nurses while remaining in their communities

RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

1,229

publications related to this SDG were authored by members of the Lakehead community (2019-2021) 5

Lakehead University Research Chairs are conducting focused research related to this SDG (2021) 9

Research Centres at Lakehead are doing focused work related to this SDG (2021)

PARTNERSHIPS / OUTREACH / STEWARDSHIP

Lakehead is a member of the

Sustainable Development Solutions Network (SDSN) Canada, a

collective of universities, colleges, research centres, and knowledge institutions to promote practical solutions for sustainable development.

Lakehead is a member of the

Inter-American Organization for Higher Education

(IOHE), contributing to the transformation of Higher Education Institutions, while building and creating common spaces of Inter-American collaboration.

Lakehead is a member of **Universities Canada**.

which fosters collaboration among universities and governments, the private sector, communities and international partners to help build a better world

OPERATIONS

Plans & Commitments

- Lakehead University 2018-2023 Strategic Plan
- Lakehead University 2019-2024 Academic Plan
- Lakehead University Sustainability Action Plan
- Lakehead University Equity, Diversity and Inclusion Action Plan
- Lakehead University Wellness Plan



2021 RESEARCH CENTRES, INSTITUTES & FACILITIES

ZUZ I NESEARCH	Sustainable Development Goal														S		
						Su	ıstain	able l	Devel	opme	nt Go	oal					
Research Centres, Institutes & Facilities	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Anishinaabe Kendaasiwin Institute (AKI)																	
Enhancing the Prevention of Injury & Disability @ Work (EPID @ Work) Research Institute																	
Green Processes Research Centre (GPRC)																	
Centre for Innovation and Entrepreneurship Research (CIER)																	
Centre of Excellence for Sustainable Mining & Exploration (CESME)																	
Research Centre for Sustainable Communities (RCSC)																	
Biorefining Research Institute (BRI)																	
Centre for Analytical Services (LUCAS)																	
Centre for Education and Research on Aging & Health (CERAH)																	
Centre for Health Care Ethics (CHCE)																	
Centre for Northern Studies (CNS)																	
Centre for Research on Safe Driving (CRSD)																	
Centre for Rural & Northern Health Research (CRaNHR)																	
Centre of Education and Research on Positive Youth Development (CERPYD)																	
Lakehead Social History Institute (LSHI)																	
Lakehead University Agricultural Research Station (LUARS)																	
Lakehead University Aquatic Toxicology Research Centre (ATRC)																	
Lakehead University Biomass Utilization Research Laboratory (BURL)																	
Biotechnology Laboratory for Enzymes and Bioproducts (BLEB)																	
Lakehead University Environmental Laboratory (LUEL)																	
Lakehead University Geospatial Data Centre (LUGDC)																	
Lakehead University Instrumentation Laboratory (LUIL)																	
Lakehead University Material Characterization Services (LUMCS)																	
Lakehead University Molecular Archaeochemistry & Residue Services(LUMAR)																	
Lakehead University Fire Testing and Research Laboratory (LUFTRL)																	
Lakehead University Mineralogical & Experimental Laboratory (LUMINX)																	
Lakehead University Paleo-DNA Laboratory (PDNA)																	
Lakehead University Wood Science Testing Facility (LUWSTL)																	

2021 CANADA RESEARCH CHAIRS (CRCs)

			Sustainable Development Goal																
Researcher	Department	Area of Focus	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Dr. Maryam Ebrahimi	Chemistry	Low-dimensional Nanomaterials																	
Dr. Pedram Fatehi	Chemical Engineering	Green Chemicals and Processes																	
Dr. Lindsay Galway	Health Sciences	Social-Ecological Health																	
Dr. Max Haiven	English	Culture, Media and Social Justice																	
Dr. Charles Levkoe	Health Sciences	Sustainable Food Systems																	
Dr. Christopher Mushquash	Psychology	Indigenous Mental Health and Addiction																	
Dr. Sudip Rakshit	Chemical Engineering	Bioenergy and Biorefining Processes																	
Dr. Michael Rennie	Biology	Freshwater Ecology and Fisheries																	
Dr. Alla Reznik	Physics	Physics of Radiation Medical Imaging																	
Dr. Pauline Sameshima	Education	Arts Integrated Studies																	
Dr. Matthew Tocheri	Anthropology	Human Origins																	

2021 LAKEHEAD UNIVERSITY RESEARCH CHAIRS

			Sustainable Development Goal																
Researcher	Department	Area of Focus	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Dr. Lana Ray	Indigenous Learning	Decolonial Futures																	
Dr. Connie Russell	Education	Environmental Education																	
Dr. Salama Ikki	Electrical Engineering	Wireless Communications																	
Dr. Cheryl Lousley	English	Environmental Humanities																	
Dr. Wilson Wang	Mechanical Engineering	Intelligent Systems																	



