



Bee City Campus Application Form

Dalhousie University
(Name of College/University)

Halifax, Nova Scotia, Canada
(Province/Territory)

A) Campus Information:

College/University: Dalhousie University

Address: 6299 South St

City: Halifax Province/Territory: Nova Scotia

Postal Code: B3H 4R2 Phone: (902) 494-2211

B) Applicant Information:

Name: Alexa Goodman Position: Sustainability Manager

Email: a.goodman@dal.ca Phone: 782-641-7146

C) Fees

There are no fees for the initial application, but fees will apply upon yearly renewal.

3000 or Less Students	FREE
3001 – 5,000	\$200
5001 – 10,000	\$300
10,001 – 20,000	\$400
+20,000 Students	\$500

D) Becoming a Bee City Campus

Briefly summarize why your College/University should become a Bee City Campus (add/remove lines as needed).

If you have any questions, please contact Shelly Candel - shelly@beecitycanada.org or 647-402-0133.

Dalhousie University has consistently demonstrated its commitment to pollinator initiatives, which are actively driven by a combination of faculty and course learning activities, student-led projects, dedicated grounds staff, and various societies. Over the past few years, we've created several pollinator habitats. On the Studley Campus, these include the Indigenous pollinator garden, Hügélkultur garden bed, and, most recently, a designated pollinator wall/area. On the Agricultural Campus these include the Bicentennial Botanical Garden, Alumni Gardens, Butterfly Pollinator Garden, Cultrivat8 Garden, and Herb Garden, to name a few of many.

What sets these spaces apart is the dedication to native flowering plants. These plants bloom from spring to fall, providing a constant source of nutrition for a diverse range of pollinators. The vibrant, seasonal display of flowers not only beautifies our campus but also serves as a crucial resource for local pollinators, highlighting our ongoing commitment to environmental stewardship.

E) Commitments and Actions

In order to enhance the understanding of the students and staff about the vital role that pollinators play in a healthy ecosystem, the applicant agrees to meet the following commitments required of all Bee City Campuses:

1. **Adopt the Bee City Canada Resolution (see section G).**
2. **Create a Bee City Pollinator Team.** The team will be responsible for overseeing the Bee City program. We recommend a committee of at least two faculty members, 2-5 students, campus staff, including employees from the campus grounds department.

Expand table to add rows as needed.

Name	Role	Email address
Alexa Goodman	Sustainability Manager, Dalhousie's Office of Sustainability	a.goodman@dal.ca
Alexandre Legault	Sustainability Coordinator, Dalhousie's Office of Sustainability	alegault@dal.ca
Emily McLean	Pollinator Coordinator	em382568@dal.ca

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	and Dalhousie Biology Student	
Arunima Verma	Sustainability Communications and Engagement Lead, Office of Sustainability; Environmental Engineering Student	Arunima.Verma@dal.ca
Michael Wilkinson	Environmental Services Manager, Facilities Management	M.Wilkinson@Dal.Ca
Tom Innes	Environmental Services Supervisor, Facilities Manager	Tom.Innes@Dal.Ca
Chelsea Baird	Outdoor Classroom and Landscape Manager, Agricultural Campus	CBaird@dal.ca
Edward Versteeg	Senior Instructor Landscape Architecture, Department of Plant, Food and Environmental Sciences	Ed.Versteeg@dal.ca
Rick leBrasseur	Associate Professor of Landscape Architecture, Department of Plant, Food and Environmental Sciences	r.leBrasseur@dal.ca
Amy Mui	Professor, Department of Earth and Environmental Sciences	amy.mui@dal.ca
Jean Lynds	Farm Operations Manager, Faculty of Agriculture	Jean.Lynds@Dal.Ca
Jason Penny	Environmental Service Manager, Facilities Management, Agricultural Campus	Jason.Penney@Dal.Ca
Lara Gibson	University Teaching Fellow, Department of Biology	ldgibson@dal.ca
Susan Gass	University Teaching	Susan.Gass@Dal.Ca

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	Fellow, Department of Earth and Environmental Sciences	
Jeffery Morton	Senior Instructor, Landscape Horticulture and Landscape Architecture, Department of Plant, Food and Environmental Sciences	Jeff.Morton@Dal.Ca
Karen Smith	Senior Instructor, Department of Plant, Food and Environmental Sciences	Karen.A.Smith@Dal.Ca
Stephanie MacKenzie	Project Manager, Facilities Management, Agricultural Campus	Stephanie.MacKenzie@dal.ca
Paul Manning	Assistant Professor, Department of Plant, Food and Environmental Sciences	Paul.Manning@Dal.Ca

3. **Develop a Pollinator Habitat Action Plan:** Outline your initiatives which aim to improve, maintain or create new habitat for pollinators. Examples could include planting a native plant pollinator garden on or off your campus, increase the biodiversity of the native plants, reduce or eliminate pesticide use, reduce frequency of mowing in certain areas, etc. Describe your plans and include a plant list, if possible.

The Studley Campus has a unique area that has become the focal point for two of our latest initiatives: the Hügélkultur bed and the pollinator wall. Nestled beneath a lush canopy of trees, this space offers students inviting walking pathways to explore. As we move forward, our vision is to transform this area into a haven for both students and local wildlife.

We will continue to build on our pollinator habitats, by planting more native flowering species. To further enrich these spaces, we will actively introduce additional native flowering species. Through careful observation spanning the spring to fall seasons, we aim to identify any periods when there is a noticeable lack of blooming plants within our habitats.

Recognizing the vital importance of consistent nutrition for pollinators throughout their diverse life cycles, we will take proactive steps to address these gaps. During periods of limited floral activity, we will introduce plant species known to bloom at that time. This strategic approach ensures that pollinators have access to a continuous supply of nourishment, promoting their health and well-being.

It's essential to recognize the pivotal role played by our native bee species in maintaining our environment. Surprisingly, many people are unaware that a staggering 90% of our bee population comprises solitary species. To raise awareness among our fellow students and staff, we plan to establish habitats specifically designed for solitary nesting bees. While drilling holes in logs is one method we have done, we are eager to explore creative approaches to gain attraction of students for education. One such way is by creation of a miniature bee hotel with transparent glass panels. This small design reduces the risk of disease spread, pests, and predator attraction but also provides a captivating educational experience by use of clear glass for people to see the insect's cavity nesting details.

To ensure the well-being of any nesting species, we'll implement a thorough maintenance plan. This will include yearly replacement and cleaning of the area, along with proper installation protocols. Our commitment is to safeguard the health and vitality of the pollinators that choose to use this spot as their nesting site, while captivating the curiosity of our student community. Dal security also has EpiPens handy in case of anaphylaxis reactions to stings.

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- 4. Promote Education about Pollinators:** Outline your initiatives aimed at educating students, faculty, staff and visitors. This may also include pollinator signage around campus.

Every year, we take part in Biodiversity Day, where students and staff learn to use iNaturalist to document the diverse wildlife and plant species on campus. We're introducing a pollinator-specific event, where students can discover the world of pollinators, learn how to identify them, locate their habitats, and understand their critical role in our environment. Working with various faculty members also provides an opportunity to create student projects dedicated to monitoring and assessing biodiversity among these areas, where we can compare with baseline data from iNaturalist dating back to 2016 for example.

We also plan to include educational signage around campus featuring QR codes that offer more information about the initiative on a dedicated webpage. We also plan to create a unique pollinator habitat graphic using Dalhousie's Brand to include on the signage for visual recognition across all 4 campuses. At each pollinator habitat, visitors will be able to discover which species are planted, the pollinators they attract, and ways to engage in pollinator initiatives. We will ensure similar signage is used across the various campus and spaces for continuity, where drafts are currently being developed.

Additionally, we're launching quarterly webinars and workshops covering various aspects of pollinators, with each session focusing on a different topic. These sessions may

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delve into native bees, debunk myths and misconceptions, and explore other native pollinators, offering valuable insights for all.

5. **Celebrate Pollinators:** Tell us how your campus will celebrate National Pollinator Week and/or participate in other pollinator-themed events.

Dalhousie's annual Biodiversity Week, held in late June, and Sustainability Month held in October, offers a range of sustainable events for the campus and the public. In the last year, we have placed a significant emphasis on pollinator initiatives. This has included informative sessions, hands-on planting events, and enjoyable activities centered around pollinators. Once we receive our designation, we work with the Communications department to be featured in the Dal News, and we will create a social media campaign highlighting our designation and various gardens across all campuses. We will also plan a special event at the Agricultural Campus celebrating the launch of Dalhousie's Bee City Campus achievement through the unveiling of a life-size welded bee art piece, likely in the Alumni Garden.

F) Other Requirements

1. Publicly acknowledge receiving your Bee City Campus designation through your website, social media and by displaying Bee City Canada signage in a prominent location.
2. Annually apply to renew your Bee City Campus designation. A renewal application will be sent to you.

G) Resolution and Signature

WHEREAS the goal of Bee City Canada is to promote healthy, biodiverse habitats for pollinators in communities across Canada.

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THAT bees and other pollinators around the globe have experienced dramatic declines due to land fragmentation, habitat loss, use of pesticides, industrialized agriculture, climate change and the spread of pests and diseases, with serious implications for the future health of flora and fauna for the planet; and

THAT colleges and universities have the opportunity to take actions to support pollinators by creating healthy habitats within their grounds and the broader community; and

THAT supporting pollinators fosters environmental awareness, increases interactions and engagement among campus community members and reminds us of our responsibility to take care of mother earth for future generation; and

THAT staff be authorized to submit the Bee City Canada Application to designate (college/university) as a Bee City School/Campus; and

NOW, THEREFORE, BE IT RESOLVED:

THAT (name of campus) accepts the designation and commits to the standards of the Bee City Canada Program.

Approved and adopted this

30th day of November, 2023.

Signature of President/Official: 

Please print President/Official's name: Alexa Goodman, Sustainability Manager

Submitted by: Alexa Goodman **Date:** November 30th, 2023

H) Requested Attachments

With your completed application, please provide:

1. Your campus logo (png format) with any usage guidelines.

Dalhousie logo and guidelines are [available online here](#).

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2. A short 50-100 word write-up of why it's important to become a Bee City Campus. Include photos if possible. This will help us share the exciting news through our social media outlets.

Becoming a Bee City Campus is crucial for Dalhousie University due to its unwavering dedication to pollinator initiatives, driven by student-led projects, dedicated grounds staff, and various societies. The campus has established diverse pollinator habitats with a focus on native flowering plants, ensuring a year-round source of nutrition for local pollinators. This commitment not only enhances the campus's aesthetics but also underscores its ongoing dedication to environmental stewardship, making it a beacon of sustainability and biodiversity.

[Images are located here.](#)

Send your completed application to: applications@beecitycanada.org.