

SPF Application Form

Section A - Cover Page

Fill out this Cover Page and save it to your files for future reference before uploading it on the SPF website.

Project Title The Macdonald Showcase Permaculture Garden Project

In one to three sentence(s), explain what your project is about:

This application to the Sustainability Projects Fund outlines a proposal for a showcase permaculture production area, which will beside the future Community Engagement Center on the Macdonald campus. This garden will educate the estimated annual 20,000 visitors about sustainable agricultural production methods.

Macdonald

Approximate Budget
Requested to the SPF 18,320
D ¤

Approximate Total Project
Budget (incl. other sources of
funding if applicable) 18,320
D

List 1 to 3 main item(s)/expense(s) for your project that
SPF money will be used for (incl. approx.% of total budget):

Plants for the garden (22%), Garden Coordinator Salary (62%)

PROJECT TEAM MEMBERS (read details about [SPF Evaluation Criteria #5](#) for more information)

1. Project Team Member

First Name & Last Name Audrey Wagner Affiliation (select one) Undergraduate (UG)
Phone (daytime; only put #) +1 (514) 716-8207 Specify if Other _____
Email audrey.wagner@mail.mcgill.ca Faculty/Unit/Organization Agriculture, Environmental Science

First Name & Last Name Christopher Wrobel Affiliation (select one) Other (specify)
Phone (daytime; only put #s) +1 (514) 960-8495 Specify if Other Alumnus
Email christopher.wrobel@mail.mcgill.ca Faculty/Unit/Organization _____

3. Additional Project Team Member

First Name & Last Name Dylan Davies Affiliation (select one) Undergraduate (UG)
Phone (daytime; only put #s) _____ Specify if Other _____
Email dylan.davies@mail.mcgill.ca Faculty/Unit/Organization Agriculture, Environmental Science

4. Additional Project Team Member

First Name & Last Name Ella Martin Affiliation (select one) Undergraduate (UG)
Phone (daytime; only put #s) _____ Specify if Other _____
Email ella.martin@mail.mcgill.ca Faculty/Unit/Organization Agriculture, Environmental Science



SPF Application Form
Section A - Cover Page

PROJECT TEAM MEMBERS (CONT'D)

5. Additional Project Team Member

First Name & Last Name Heather Gordon Affiliation (select one) Undergraduate (UG)
Phone (daytime; only put #s) Specify if Other
Email heather.gordon2@mail.mcgill.ca Faculty/Unit/Organization Agriculture, Environmental Science

6. Additional Project Team Member

First Name & Last Name Affiliation (select one)
Phone (daytime; only put #s) Specify if Other
Email Faculty/Unit/Organization

7. Additional Project Team Member

First Name & Last Name Affiliation (select one)
Phone (daytime; only put #s) Specify if Other
Email Faculty/Unit/Organization

8. Additional Project Team Member

First Name & Last Name Affiliation (select one)
Phone (daytime; only put #s) Specify if Other
Email Faculty/Unit/Organization

To list more members, fill a 2nd Cover Page form and save it separately. You may then e-mail it to SPF Staff directly, also specifying your project title.

OPTIONAL:

If applicable, total number of team members voluntarily self-identifying as members of marginalized communities:

Represented marginalized communities:

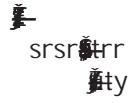
Specify if Other(s) and/or add more:

Relevant link(s): (to website(s) or social media)

How did you learn about the SPF? (select one) MOOS/SPF website Specify if Other

Have you already been part of an SPF project in the past? [] Y [x] N If yes, specify project(s):

Please check the boxes to confirm that you have read and agree to the following information:
All of our project team members understand that the SPF is publicly funded and therefore, by default SPF projects are non-commercial. We agree that if needed, the SPF Steward, the SPF Administrator and/or the SPF Working Group members read and/or share the application and communicate part of its content in the case where they would need to (e.g. to receive professional advice, connect our team and stakeholders, etc.).
If our project is approved, all our project team members agree that their name, email, and phone number as well as their affiliation to the project be disclosed (e.g. for contact information or through our application and progress/final reports published on the SPF website).
If you do not check this box, the SPF staff will communicate with you to know whose information to remove before sharing your project online.
All our project team members have read and understood the SPF Terms & Conditions and we confirm that we agree to respect them.
If any aspect of the SPF Terms & Conditions are unclear to you, contact the SPF Staff before you submit your application so that you can check this box in confidence. Also note that, if your project is approved, the Project Lead and the person monitoring the project's budget will have to confirm in writing (through email or signing the document) that they agree to the SPF Terms & Conditions before officially starting the project.



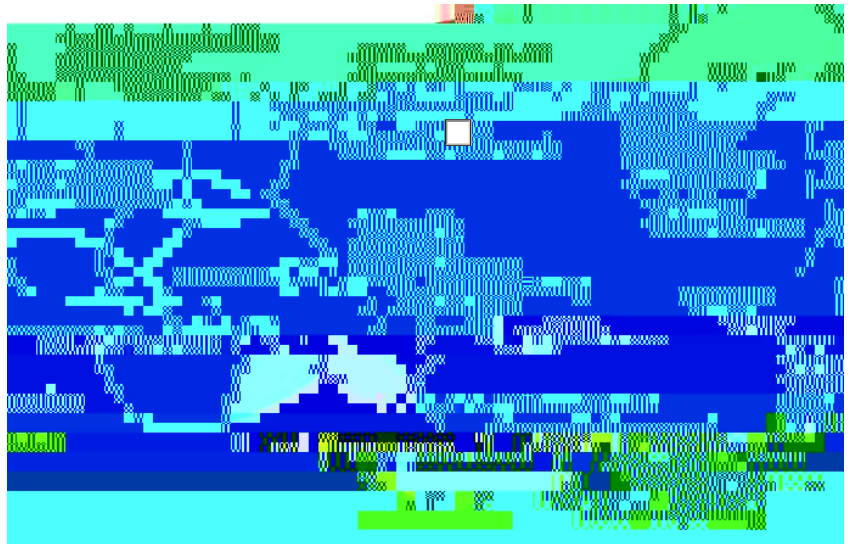
SPF Application Form Section B - Project Overview

Project Title The Macdonald Showcase Permaculture Garden Project



SPF Application Form

Section B - Project Overview





SPF Application Form Section B - Project Overview

8. How does your project relate to any current/past initiative(s) on McGill campus(es) (e.g. other SPF projects)? If applicable, also indicate: 1) how your project complements the initiative(s), and 2) how you will partner with them in implementing your project (e.g. working together on some activities, sharing material/resources/costs). (2000 char. max. ~300 words)

The Macdonald Showcase Permaculture Garden Project shares many similar goals with SPF0043, the Thomson House Garden Project that was installed in 2011. Both these projects aim to integrate a permaculture system within a food production unit, make an unused area more sustainable, interest the passerby and visitors in urban agriculture, attract pollinators and add biodiversity to the surroundings. However, this project will be on a larger scale than the Thomson House Garden project and will have a greater impact. This project also shares similarities to SPF0121 and SPF0142, which were effective in introducing permaculture concepts at Macdonald campus. The latter of these projects consisted of the design and implementation of a permaculture food forest, which is currently managed by the Macdonald Student Ecological Garden Project (MSEG). Although this permaculture site is a prime example of permaculture principles, it is too far removed from the campus to work as an effective permaculture awareness promoter. Thus, this project will build on these past permaculture projects and will be more high-profile and be more effective in permaculture education. The Macdonald Showcase Permaculture Garden Project plans to partner with MSEG to share knowledge, tools, mulch, compost, and other resources, since both projects are currently managing permaculture sites. Joint tours and workshops may also be given at both sites. Furthermore, this project may sell some of its produce at markets along with MSEG. We also plan to collaborate with the Farm to School initiative. Farm to School will be able to educate and work with autistic youth in the showcase permaculture garden by teaching tasks such as weeding, sowing, pest management, pruning, and harvesting.

9. List the other stakeholders on/off of McGill campus(es) that you will partner with for your project. (530 char. max. ~80 words)

Note: Under Stage 2 of the SPF application process, in the Project Plan, you will be asked to indicate your final key partners and specify how they will participate in your project. You will also be able to submit any documents that you want in appendices to demonstrate your communications and agreements with these key partners (e.g. support letters, emails).

The following are a list of all stakeholders that the project will partner with: The McGill Permaculture Club; Paul Meldrum, Director of the Farm Center; David Wees who teaches in the Ecological Agriculture specialization; MSEG and the Farm to School program; Graham Calder from P3 Permaculture that will teach the permaculture certificate to the students designing the showcase garden; the student designers of the showcase garden; Chris Wrobel, MSc., project member and alumnus; and the Macdonald campus community.

10. What key recommendations and/or lessons learned from current or past initiative(s) do you plan to build your project upon? (800 char. max. ~115 words)

One lesson can be learned from the Thomson House Garden Project (SPF #43) that applies to this project. Where possible, it is always preferable to go to a nursery and personally choose good quality plants for the project rather than having them delivered. The project will also exchange information with the MSEG on plant culture and sourcing good quality plant material. And it will adopt elements of MSEG's model of ensuring garden continuity after the initial garden proponents have graduated. There are also a number of lessons to be learned from projects SPF0121 and SPF0142, as outlined in Appendix 2. These include doing a soil test at different parts of the designated land area, and continually monitoring the plants in the garden for signs of both abiotic and biotic stressors.

- ABOUT SPF FUNDING -

11. Why do you think that your project should be funded by the SPF rather than by, or in addition to, another source of funding - i.e. what aspects of your project make it specifically relevant to the SPF mandate? (530 char. max. ~80 words)

This project requires an initial sum of seed money to establish itself. This does fit the requirement of the Sustainability Projects Fund. It is a permaculture project that is mostly composed of perennial species which should require relatively little maintenance in the years thereafter. Maintenance funding will be sourced by the McGill Permaculture Club in the years to come.

12. What other sources of funding have you approached for your project? If applicable, also provide the relevant details on these sources (e.g. responses given, amounts already committed, what these amounts will pay). (530 char. max. ~80 words)

No other sources of funding have yet been approached for this project. However, in the third year the project will start producing a harvest the proceeds of which will be reinvested into the project. And it is quite possible that since the project will become part of the tour for the Community Engagement Center, some proceeds from ticket sales will be passed onto the showcase garden project for maintenance.

Thank you! After you save it to your files, you can now upload this form and Section A - Cover Page on the SPF website to complete this first stage of the application process. The SPF staff will contact your team within two weeks to provide feedback and accompany you towards next stage - Project Plan. Congratulations for applying to the SPF!



SPF Application Form Section C - Project Plan

Answer the following questions and save this form to your files for future reference before uploading it on the SPF website.

Project Title The Macdonald Showcase Permaculture Garden Project

Project Lead Audrey Constance Wagner Phone +1 (514) 716-8207 Email audrey.wagner@mail.mcgill.ca
First & Last Name (daytime)

Before you fill out this Project Plan, make sure you have consulted all related resources as well as the [Sample Project Plan](#), which gives some concrete examples for each term. Last, also do not forget to refer back to your 'Section B - Project Overview' to make sure that all the details you specify here align with it. For more support, consult the SPF website and the SPF staff.

Project Vision Permaculture teaching and research will be widely instilled in the agricultural curriculum.

As indicated in your Section B - Project Overview.

Project Goal There will be greater awareness of permaculture at the Macdonald campus. This will lead to adopting more permaculture techniques in landscape maintenance on the Macdonald Campus, as well as more teaching of it.

As indicated in your Section B - Project Overview.

1. List 1 to 3 main impacts you expect/wish to have with your project - these must relate to the above Vision and Goal:

2. List 4 to 7 of your objectives to reach the above impacts with your project. Make your objectives as S.M.A.R.T. as possible.

For each objective, indicate one key Success Indicator. (see [SPF Glossary](#), [Sample Project Plan](#), and [Sample Indicators](#))
Of your 4-7 objectives, you should have a minimum of one "monitoring" objective, one "outreach" objective, and two "other" objectives. A monitoring objective ensures or verifies the progress and effectiveness of your project, thus allowing you to learn from it. An outreach objective ensures that your project is adequately communicated to the McGill community to increase stakeholders' awareness of and/or participation in your initiative. These two types of objectives might lead to

				<input type="radio"/>
Other				<input type="radio"/>
6 Other				<input type="radio"/>
7 Other				<input type="radio"/>



3. List the 4 to 7 most important activities that you need to conduct to reach the objectives you listed before. Make these Your S.M.A.R.T. Main Activities (125 char. max. ~20 words). Related Objective # (s) (10 char. max. ~5 words). Resulting Output (s) (100 char. max. ~15 words). Related Key Success Indicator (s) - also indicate targeted numbers for each (85 char. max. ~15 words) (ignore the circles for now).
 Your main activities should relate to the objectives you listed. As such, if you consider this crucial to your project, you may end up having an activity that relates to your monitoring objective(s) (e.g. developing a survey, any other activity that will help you and other stakeholders learn through your project) or to your outreach objective(s) (e.g. producing and promoting a video about the project). For each activity, indicate the output(s) that will be created as a result, such as a deliverable (e.g. video, report), training, website, network, design plan, or any other output adding value to the project and helping reach objectives/impacts.

S.M.A.R.T. Main Activities (125 char. max. ~20 words)	Related Objective # (s)	Resulting Output (s)	Related Key Success Indicator (s) - also indicate targeted numbers for each (85 char. max. ~15 words) (ignore the circles for now)	
Recruitment for the PDC	1	Number taking PDC	Minimum of 7 McGill people taking the PDC	<input type="radio"/>
Design of the garden	1	Well tailored design	Design meets all our criteria	<input type="radio"/>
Recruit volunteers for the garden	1	Involved community	Number of volunteers per month	<input type="radio"/>
Design of the survey to poll garden visitors and the MAC community	2	Evaluation System	Number of people with a positive reaction to the garden project	<input type="radio"/>
Logging of all garden inputs	3	Material input measurement	Level of sustainability of the inputs	<input type="radio"/>
Hiring of a project coordinator	2	Successful management	Job position is equitable and manager is satisfied	<input type="radio"/>
Outreach to Campus Ground Managers at Macdonald and downtown McGill	4	More campus permaculture	Number of new permaculture methods incorporated	<input type="radio"/>

4. Now, about the circles...: Select a total of 3 success indicators that you wish to track more seriously and report on during your project out of all those you indicated for your objectives and activities. These 3 indicators should be the most relevant to your goal and to creating a culture of sustainability at McGill and they should be relatively easy to monitor.

When selecting your indicators, make sure that you will have/plan the time and resources you will need to allocate to monitor them throughout the course of your project. Before you start your project, the SPF may ask you to change a chosen indicator for another that seems more pertinent to the SPF or to the University sustainability reporting. Note that, in addition to these three indicators, you will be asked to track four other generic ones that will be specified in the Award Letter. You will be required to indicate progress towards your final 7 indicators in your progress and final reports to the SPF. Because the SPF values the experiences and learning that occurs during your project (not only results), these reports will also gather related information through open-ended questions.

6. List the 3 to 10 stakeholders/partners on/off McGill campus(es) that will be involved with and/or impacted by your project, and indicate their respective role in your project. *If your project team (as presented on Section A - Cover Page) does not include a student member or a faculty or administrative staff member, please make sure to have this group represented as part of your stakeholders/partners to better align with [SPF Evaluation Criterion #5](#).*

Stakeholder's Name(s)	Affiliation	Role in the project	Confirmed support/participation
Paul Meldrum	Director Farm Center	Logistical support	Yes
David Wees	Faculty Lecturer	Uses the project as a teaching tool	Yes
Graham Caulder	P3 Permaculture	Consultant and teacher of the P3 PDC	Yes
Chris Wrobel	MSc. Graduate, Project Member	Project adviser – experienced agronomist	Yes
MSEG	Mac Student Project	Adviser in plant cultivation	Yes
Farm to School	Mac Student Project	AgConnect program will use the garden	Yes
Macdonald Community		Source of volunteers	
Student Designers of Project		Garden Designers	Yes
Caroline Begg	Faculty Lecturer	Logistical support	Yes

- PRELIMINARY TIMELINE ASSUMING THAT PROJECT STARTS IN 3 MONTHS -

Note: If your project is approved, you will be asked by the SPF staff to fill out a more detailed timeline before any funding can be allocated.

Key Tasks and/or sub-tasks	Related Output(s)	Responsible Team Member(s) and Time (initials + if paid, estimated # of hours to do task)	Start Date	End Date
PDC Students Design Garden	Garden Design	CW	02-03-17	30-04-17
Hire Project Coordinator	Employee	AW, CW, DD, EM	15-03-17	15-04-17
Land prepared and surveyed	Land Ready	Paul Meldrum	01-05-17	08-05-17
Plants and mulch installed	Garden	AW, CW, DD, EM	09-05-17	31-05-17
Signage installed	Explanatory Tour	Garden Coordinator	31-05-17	21-06-17
Garden Maintenance	Aesthetic Design	Garden Coordinator	31-05-17	31-08-17
Video Created	Awareness Tool	Garden Coordinator	31-05-17	31-08-17
Cedar Mulch applied	Garden Pathways	Garden Coordinator	31-05-17	30-06-17
Website Created	Awareness Tool	EM, AW, Garden Coordinator	01-05-17	28-02-18

Provide any additional details that you would like to share with the SPF about your timeline. (530 charac. max. ~80 words)

With the uncertainty of the weather there could be a delay of 1-2 weeks with the planting schedule. The garden will be designed by a team of McGill students that will be taking the P3 Permaculture Design Certificate. However, there will be some input on the design by the project group members, Paul Meldrum and David Wees. Other Macdonald Faculty members may also be consulted to enable them to use the garden for teaching/research purposes.

- ADDITIONAL INFORMATION -

If applicable, a List of Tasks for each position to be funded and the CVs of those to be employed in the project are attached:

List of appendices, if any (maximum 7 pages of appendices, excluding CVs, but including List(s) of Tasks for all positions to be funded):

Appendix #	Title/Topic of Appendix	Total Qty of Pages
1	University of Massachusetts Permaculture Initiative at a Glance	1
2	Lessons Learned from Permaculture Classes (SPF0121) and Permaculture Design (SPF0142)	

- BUDGET -

	(A) Funding Source(s)	(B) Amount (\$)	(C) Status
1.			

Thank you! After you save it to your files, you can now upload this form and any appendices on the SPF website to complete the application process. The SPF staff will contact your team within two weeks to provide feedback. Congratulations for applying to the SPF!

Appendix 1 University of Massachusetts Permaculture Initiative (2007-2014) (http://www.umass.edu/foodsys/perm) The first garden, the highly productive garden. The following year the students demonstrated the regenerative capacity of permaculture with the Berkshire Garden, located on a formerly degraded, barren, eroded piece of land, converting it into a healthy, inviting edible -scape. Their most recent garden was built at the Chancellors Hillside House, per request of the Chancellor himself.

Volunteers: To date, the gardens have involved over 2,500 volunteers, including students, staff, faculty, and local community members and organizations. They've incorporated over 1.5 million pounds of UMass compost, recycled cardboard, and wood chips.

Student Involvement: The program serves as a source of inspiration and an outlet for involvement for countless students. The gardens are designed and implemented by the student-led Permaculture Committee; a group of passionate students that engage and educate the campus community about permaculture and sustainability.

Harvests: The students

Appendix 2. Lessons Learned from Permaculture Classes (SPF0121) and Permaculture Design Certificate (SPF0142)

The project SPF0121 Permaculture Course validated the presence of a growing awareness and interest in permaculture at the Macdonald campus. Classes were well attended (an average of over 30 people per class) with a Facebook membership of over 400 people. The initiative led to another SPF project SPF0142 – Permaculture Design Course (PDC). Nine McGill students took the P3 PDC and designed a food forest area of half an acre on a former MSEG (Macdonald Student Run Ecological Garden) production area in the Arboretum. Both projects were very dynamic ones. The following lessons were learned from both projects:

- 1) The food forest is in an area that is located relatively far from the Macdonald campus. It is not very accessible and is on a steep slope that is not very well drained. There is also some natural predation of some of the plant species by a growing population of deer in the immediate area. For these reasons it is not an area suitable for mass visitation by the public.
- 2) The food forest was not accessible by farm machinery available at the Macdonald campus. The Showcase Permaculture Garden Project will have the benefit of trained people using Macdonald Campus tractor equipment if needed to prepare the land area designated for the project before its installation.
- 3) There was some crop loss in the food forest garden due to competition from a cover crop and to soil ph problems. The Showcase Garden Project will do ph tests of the soil at periodic intervals on the designated land for the project. And a cover crop will not be used –we will be covering the area with bark chip mulch.
- 4) The SPF0142 had some challenges sourcing some of the plants that were required for their design. We will work together with MSEG, the UMass permaculture initiative, and other individuals (such as Faculty) to identify reputable sources for the plant species in our design.



Faculty of

Faculté des

Arts and Sciences

Sciences de l'environnement

DATE: December 21, 2016

TO: McGill Sustainability Projects Fund

FROM: David Wood, Dept. of Plant Science

RE: McGill Sustainability Projects Fund - Agriculture Garden Project

Dear McGill Sustainability Projects Fund,

I am writing to you today to support the McGill Sustainability Projects Fund in creating a

Appendix 4. Plants for the Showcase Permaculture Macdonald Garden

Plant	Cost	Source **	Total
Welsh Onion	36 x \$13.00	R	\$108.00
Horseradish	3 x 2.45	R	7.35
Sweet Cicely	3 x 2.45	R	7.35
Globe Artichoke	3 x 2.45	R	7.35

Spearmint	3 x 2.45	R	7.35
Sage	3 x 2.45	R	7.35
French Tarragon	3 x 3.20	R	9.60
Oregano	3 x 2.45	R	7.35
Wild Sweet William	Packet 5.00	R	5.00
Grape, Concord	1 x 20.00	J	20.00
Stinging Nettle	3 x 2.45	R	7.35
Elderberry	1 x 12.00	R	12.00
English Lavender	3 x 2.45	R	7.35
Lovage	3 x 2.45	R	7.35
Pennyroyal	3 x 2.45	R	7.35
Bay Laurel	3 x 5.45	R	16.35
Askula Seabuckthorn	1 x 8.00	R	8.00
Male Seabuckthorn	1 x 8.00	R	8.00
Woodland Sunflower	6 x 6.75	R	40.50
Cardinal flower	6 x 4.75	R	28.50
New England aster	10 x 4.75	R	47.50
New York aster	10 x 4.75	R	47.50
Golgiberry	1 x 27.50	J	27.50
Highbush blueberry	2 x 21.00	J	42.00
Raspberry	4 x 18.00	J	72.00
Red currant	2 x 21.00	J	42.00
Blackberry	2 x 21.00	J	42.00
Ligonberry	2 x 21.00	J	42.00
Wild ginger	12 x 2.55	R	47.50
Joe-Pye Weed	3 x 3.20	R	9.60

Audrey Constance Wagner

2238 Addington H4A 3G5 NDG MTL, QC, Canada
audreywtree@hotmail.ca
Cell: 514-716-8207

Internship at *Navdanya Biodiversity Conservation Farm* in India

June 2015

- During my three months in India, I completed a month-long internship with the Navdanya organization, founded by activist Vandana Shiva. My responsibilities included organizing learning seminars with the other interns and volunteers; performing agriculture-related tasks such as sowing seeds, harvesting crops, saving seeds, mulching, weeding; and



**Faculty of Agricultural
and Environmental Sciences**

McGill University
Macdonald Campus

Department of Natural
Resource Sciences

**Faculté des sciences de
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21,111 Lakeshore
Ste-Anne-de-Bellevue
Québec, Canada H9X 3V9

January 30 2017

Sustainability Projects Fund
McGill Office of Sustainability

Dear Sustainability Projects Committee,

I am writing in support of project proposal entitled The Macdonald Showcase Permacul