

2016 Canadian Allied Turfgrass Research (CATR) RESEARCH PRIORITIES

You are invited to submit your application considering the following turfgrass research priorities:

- Development and evaluation of effective alternatives to conventional pesticides (biological, micronutrients)
- Marketing and communicating the benefits of turfgrass and addressing the public issues about the turfgrass industry
- A systems approach to sustainable turfgrass management
- Economic impact of turfgrass management decisions (IPM, synthetic, inputs)
- New instrumentation, robotics and software technologies
- Nutrient management and nutrient sources
- Water conservation and water quality
- Emerging Pests - Better diagnostics for new pests, new diseases in Canada, invasive insects that have migrated or started to establish in Canada with no alternatives or solutions available
- Improved turfgrass species and varieties that exhibit desirable traits. For example, have wear and drought tolerance, that require lower inputs or are pest resistant, or are alternative species for putting surfaces or are fast-maturing species for sod production
- Modernize best practices for sports fields (construction and maintenance; scheduling of play, irrigated and non-irrigated fields) and putting greens.
- Basic research (economics, environment, playability) of synthetic turf and comparison to natural turf
- The nutrient composition removed when sod is harvested; to achieve the default value for sod crops
- Effects of climate change on turfgrass and pests
- Investigate the environmental benefits of golf courses to flora and fauna or research of specific cultural management practices on golf courses to improve the environmental benefits
- Development of educational materials about the environmental impact of golf courses

To apply for consideration for funding with the CTRF, ATRF, WCTA, QTRF, AtlanticTRF and/or OTRF, complete the attached **2016 Canadian Turfgrass Research Grant Application** form and submit it by **November 16 2015** to the [OTRF office](#). Funding decisions will be announced March 1 2016.

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Canadian Allied Turfgrass Research Grant Application Form

For Project Funding commencing March 2016

Funded by:

Canadian Turfgrass Research Foundation

Western Canada Turfgrass Association

Alberta Turfgrass Research Foundation

Ontario Turfgrass Research Foundation

Quebec Turfgrass Research Foundation

Atlantic Turfgrass Research Foundation

Application Submission Date: November 16 2015

Send completed applications to the OTRF office to d.conrad@otrf.ca

Note: Please resubmit if confirmation of receipt of submission is not received from the OTRF office.

Canadian Allied Turfgrass Research group referred to as CATR in application form.

Application

For Internal Use Only

Date Received _____ Proposal # _____
Reviewed by Funding Partners _____
Approved Project # _____ Not Approved _____

Project Title:

Principal Investigator Name:

Applicant Name (If different from above):

Name of Research Facility & Department:

Project Summary

Project Length (years)

Start Date

End Date:

Project Summary (4-5 sentences maximum in **layman's terms**):

Check off one or more of the CATR identified research target(s) that best fits the project

- Development and evaluation of effective alternatives to conventional pesticides (biological, micronutrients)
- Marketing and communicating the benefits of turfgrass and addressing the public issues about the turfgrass industry
- A systems approach to sustainable turfgrass management
- Economic impact of turfgrass management decisions (IPM, synthetic, inputs)
- New instrumentation, robotics and software technologies
- Nutrient management and nutrient sources
- Water conservation and water quality
- Emerging Pests – Better diagnostics for new pests, new diseases in Canada, invasive insects that have migrated or started to establish in Canada with no alternatives or solutions available
- Improved turfgrass species and varieties that exhibit desirable traits. For example, have wear and drought tolerance, that require lower inputs or are pest resistant, or are alternative species for putting surfaces (e.g., fescue or superior *Poa annua*) or are fast-maturing species for sod production
- Modernized best practices for sports fields (construction and maintenance; scheduling of play, irrigated and non- irrigated fields) and putting greens.
- Basic research (economics, environment, playability) of synthetic turf & comparison to natural turf
- The nutrient composition removed when sod is harvested; to achieve the default value for sod crops
- Effects of climate change on turfgrass and pests
- Investigate the environmental benefits of golf courses to flora and fauna or research of specific cultural and management practices on golf courses to improve the environmental benefits
- The development of educational materials about the environmental impact of golf courses aimed at golfers

PROJECT DETAILS

1. Describe the rationale (background) of the project (half page maximum):

2. What are the potential benefits to turfgrass management?

3. Who will benefit from the results of this completed project?

4. List the overall objectives for your project. Estimate the measurable milestones and timelines to complete each objective.

OBJECTIVE 1

OBJECTIVE 2

5. Describe the methodology to be used to achieve the objectives:

Objective 1 Methodology:

Objective 2 Methodology:

6. Describe the expected deliverables upon completion of this project:

7. Summarize how the results will be shared with the turfgrass industry such as scientific publications, websites, conference presentations, etc:

8. Outline any potential delays that will prevent the project from reaching the objectives or completion date:

Proposed Funding Sources for this Project				
	Year 1 (\$)	Year 2 (\$)	Year_ (\$)	Total Projected Funding
CATR Funding Request				
Government Funding (if applicable)				
In-kind Contribution (if applicable)				
Other Source of Funding (if applicable)				
TOTALS				

If you have applied to other funding sources for this project, list them below		
Funding Source	Cash or In-Kind amount (\$)	Secured (yes/no)

PROJECT BUDGET				
Estimated Project Expenses	Year 1(\$)	Year 2(\$)	Year_(\$)	Total Project Cost (\$)
Annual Totals				

APPLICANT INFORMATION

Mailing Address -Street

City:

Province:

Postal Code:

Phone:

E-mail:

Website Address(if applicable)

Please indicate what best describes your primary research area:

Pathology

Entomology

Environmental

Other (please outline): _____

Plant Nutrition

Education

1. As the principal investigator, briefly highlight the major skills and experience that demonstrate the ability to complete the project within the timeframe allotted. Please attach one page curriculum vitae.

2. Provide a brief background of your research facility (department) if you have not received previous funding from the CTRF, WCTA or OTRF.

3. List any partners or collaborators involved with this project and briefly describe their functions and qualifications.

4. If the project involves the training of students, indicate the level of degree to be obtained and outline their involvement with the project.

PRIVACY & ACKNOWLEDGEMENT

Privacy:

Applicant acknowledges that Information held by the Funding Partner (CTRF, WCTA and/or OTRF) may be required to be disclosed to third parties pursuant to the provisions of the Freedom of Information and Protection of Privacy Act.

Acknowledgement:

By submitting this application the Applicant acknowledges and agrees that:

- All information disclosed in this application to be true to the best of the applicant’s knowledge
- The Funding Partner may impose terms and conditions related to its approval;
- The decision of Funding Partner is final and binding on the Applicant
- The Applicant has disclosed all other sources of funding applied for and/or confirmed for the project;
- The Applicant shall enter into a project agreement with the Funding Partner incorporating any terms and conditions imposed by the Funding Partner
- Upon approval of funding, the Applicant will sign the Research Funding Agreement which will outline the schedule of payments and reporting requirements
- By signing the Research Funding Agreement, the successful applicant will complete the project in the allotted timeframe to the best of their ability.
- The successful Applicants, their principals and partners, consent to having their names, funding amounts and short summaries of their projects and results made available to the public.

Certification:

The Applicant hereby certifies to the Funding Partner that the application and supporting documentation are true and complete in all respects and that the person signing on behalf of the Applicant has read and understood the Privacy and Acknowledgement clauses.

Signature:	Date:
Position:	Co- applicant Signature: (if applicable)