Environment and Natural Resources Trust Fund 2019 Request for Proposals (RFP)

Project Title:	ENRTF ID:	204-F
Ensuring High-Quality Restoration Outcomes in Minnesota		
Category: F. Methods to Protect, Restore, and Enhance Land, Water, and	Habitat	
Sub-Category:		
Total Project Budget: \$ 529,102		
Proposed Project Time Period for the Funding Requested: June 30, 20	21 (2 yrs)	
Summary:		
This project seeks to improve Minnesota restoration quality by 1) designing ce project/organizational excellence, 2) developing guidance for volunteer involve-gaps in project planning/management.		
Name: Susan Galatowitsch		
Sponsoring Organization: U of MN		
Title: Professor and Head		
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Location		
Region: Statewide		
County Name: Statewide		
City / Township:		
Alternate Text for Visual:		
Restoration outcomes depend not only on site conditions but also on organiza volunteers and partners, and adherence to best practices. This project develop and projects and addresses training gaps for organizations.		
Funding Priorities Multiple Benefits Outcomes	Knowledge Base	
Extent of Impact Innovation Scientific/Tech Basis		
Capacity Readiness Leverage	TOTAL	_%
If under \$200,000, waive presentation?		

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Environment and Natural Resources Trust Fund (ENRTF) 2019 Main Proposal Template

PROJECT TITLE: Ensuring high-quality ecological restoration outcomes in Minnesota

I. PROJECT STATEMENT

While Minnesota has made significant investments in ecological restoration in order to improve habitat and environmental quality of the state's terrestrial and aquatic ecosystems, the extent to which restoration projects achieve the goals envisioned in funding proposals varies greatly. The outcome of every restoration reflects the capacity of the organization responsible for the project—the expertise of the team members, how they leverage resources, and their quality standards. This project seeks to improve the quality of Minnesota restoration efforts by: 1) designing a system of statewide standards for project and organizational excellence in restoration, 2) developing best practices guidance for restoration work performed by volunteers, and 3) addressing training gaps for restoration organizations.

Restoration certification standards: Certification is a powerful tool for promoting high standards of practice across a variety of sectors, including forest stewardship, green building, and organic foods. Certification standards can be established for individuals, organizations, or completed projects. Certification programs develop auditable standards that organizations can implement in project management and that external partners can use to verify their conformance. For restoration, national professional standards for individuals have been established, but certification standards for organizations and projects do not exist. Options for certification standards for restoration organizations and projects, tailored for Minnesota needs (e.g., publicly funded restoration and mitigation banking), will be explored and developed to increase achievement of restoration goals and objectives in the long-term.

Volunteer involvement in restoration: Many restoration projects depend on volunteers for high-labor, lower skill tasks. Volunteer use is often viewed as having many benefits (e.g., public education, cost-effectiveness) but has variable effects on restoration outcomes. Thus, improving volunteer use is critical to maximize benefits of Minnesota's investment in ecological restoration. Based on a systematic evaluation of volunteer involvement, this project will create clear guidance for organizations that rely on volunteers for restoration.

Professional restoration training: Leaders in restoration organizations are key to achieving high standards. They are responsible for assembling teams, planning and documenting project work/progress, overseeing contractors & volunteers, and managing multi-partner restorations. Training resources to develop these skills are not available in MN or elsewhere in the U.S. With ENRTF support, the University of Minnesota launched the Ecological Restoration Training Cooperative (ERTC) for individuals seeking to build basic restoration skills. This project will expand the scope of ERTC to include targeted training for leaders of restoration organizations.

II. PROJECT ACTIVITIES AND OUTCOMES

Activity 1: Evaluate and develop options for MN restoration certification standards. We will begin by scoping the value of certification to different entities and sectors including project funders and restoration and land management organizations. Based on this scoping, a minimum of 3 options for certification frameworks will be designed, assessed, and pilot-tested. The assessment will be performed and options developed through analysis of certification standards across various sectors and collaboration with experts, practitioners, and key stakeholders. We will develop methodologies and business models for options feasible to implement in MN.

ENRTF BUDGET: \$ 174,283

Outcome	Completion Date
1. Complete scoping of value for MN restoration certifications	January 15, 2020
2. Certification standard options researched and developed (minimum of 3)	July 15, 2020
3. Pilot-testing completed for proposed options and findings analyzed	January 15, 2021
4. Methodologies & business models developed for certification standard	June 30, 2021
implementation	

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Environment and Natural Resources Trust Fund (ENRTF) 2019 Main Proposal Template

Activity 2: Develop & pilot training resources to strengthen volunteer involvement in restorations. We will investigate volunteer involvement in MN ecological restoration projects to identify current norms and shortcomings in how they are being used. This assessment will include analysis of records from completed projects, interviews with restoration staff and volunteers, and observation of restoration events (5 metro/5 greater MN). Results will be used to develop training to improve volunteer use by restoration specialists and other volunteer-dependent organizations. The training will be pilot-tested and revised for broader use.

ENRTF BUDGET: \$ 176,091

Outcome	Completion Date
1. Complete analysis of existing records	January 15, 2020
2. Complete volunteer use & management assessment (including site visits, interviews)	July 15, 2020
3. Volunteer training resource drafted for review	January 15, 2021
4. Training program/courses-beta test complete	June 30, 2021

Activity 3: Develop & offer training for leaders of restoration organizations & project teams. We will expand on the current offerings of ERTC online courses by developing 4 new courses for restoration professionals in leadership/management positions: 1) Project planning & cost estimation, 2) Tracking & documenting restoration progress, 3) Managing multi-partner restoration projects, and 4) Effective use of volunteers. The scope & content of each 15-20 hour course will be developed in consultation with state agency partners. Courses will be case-based, featuring Minnesota restoration projects & professionals and include problem-solving assignments. Each course will be beta-tested and revised prior to being widely offered.

ENRTF BUDGET: \$ 178,728

Outcome	Completion Date
1. Detailed course outlines, including training sequences, cases, assignments	January 15, 2020
2. Course content completed for course 1 and 2.	July 15, 2020
3. Course content completed for third course	January 15, 2021
4. All courses completed and ready for regular offering (beta-tested and revised)	June 30, 2021

III. PROJECT PARTNERS:

A. Partners receiving ENRTF funding:

Daniel Larkin, Assistant Professor/Extension Specialist, University of Minnesota, Co-project manager; Julia Bohnen, Researcher 5, Univ Minnesota, ERTC Curriculum Development;

Lori Knosalla, Researcher 5, Univ Minnesota, Certification Analyst;

TBD, Researcher 5, Univ Minnesota, Activity 3; Amy Rager-Extension Educator & Nathan Meyer-Extension Program Leader, Univ. Minnesota, Volunteer evaluation and training

- **B. Partners NOT receiving ENRTF funding:** Susan Galatowitsch, Professor/Head, University of Minnesota, Project Manager; Wade Johnson, MN DNR; Dan Shaw, MN BWSR
- **IV. LONG-TERM- IMPLEMENTATION AND FUNDING:** The University of Minnesota will offer the new courses as part of the Ecological Restoration Training Cooperative (established with ENRTF support). Future tuition revenues from ERTC courses are reinvested in ongoing ERTC instruction, improvements, and course management. Certification program analysis results will provide guidance on long-term funding and implementation options.
- **V. TIME LINE REQUIREMENTS:** We propose this as an intensive 2-yr effort, in order to make the information and opportunities available to the restoration community and funders as soon as possible.
- **VI. SEE ADDITIONAL PROPOSAL COMPONENTS:** A. Proposal Budget Spreadsheet B. Visual Component or Map F. Project Manager Qualifications and Organization Description.

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2019 Proposal Budget Spreadsheet

Project Title: Ensuring high-quality ecological restoration outcomes in Minnesota IV. TOTAL ENRTF REQUEST BUDGET 2 years

BUDGET ITEM (See "Guidance on Allowable Expenses")	AMOUNT
Personnel: Dan Larkin, project co-manager, .04 FTE, \$9492 salary + \$3179 fringe (2 yrs): \$12,671	\$ 499,122
Julia Bohnen, Researcher 5, Curriculum Development Lead, 1 FTE, \$120,602 salary + \$40,402 fringe (2 yrs): \$161,004	
Lori Knosalla, Researcher 5, Cerification Analyst2, 1 FTE, \$121,500 salary + \$40,460 fringe (2 yrs): \$161,960	
TBD, Researcher 5, Volunteer Assessment, 1 FTE, \$101,250 salary +\$ 33,716 fringe (2 years): \$134,966	
Amy Rager, Extension Educator, Volunteer Assessment, 0.09 FTE, \$12,012 salary + \$5,719 fringe (2 years): \$17,731	
Nate Meyer, Program Leader, Volunteer Assessment, , 0.05 FTE, \$8082 salary + \$2708 fringe (2 yrs): \$10,790	
Professional/Technical/Service Contracts: Activity 3: Professional services contracts for videography (\$5000), instructional design support (\$5000).	\$ 10,000
Equipment/Tools/Supplies: Activity 1: Supplies for hosting stakeholder group meetings (\$1000) Activity 2: Supplies for trainings and site visits (\$1000), Activity 3: Supplies for curriculum development (\$500).	\$ 2,500
Travel (all domestic, most in MN): Activity 1: Travel for development of certification standards* (\$3500), Working group meetings for implementation planning (\$3600). Activity 2: Travel for site visits, research team meetings (\$6580), Activity 3: Travel to field sites to develop on-site curricular materials (\$3000). This may include some out-of-state travel to work with leaders of existing certification programs and leaders of multi-state restoration organizations.	\$16,680
Additional Budget Items: Activity 3: Nvivo subscription for data analysis (\$800)	\$ 800
TOTAL ENVIRONMENT AND NATURAL RESOURCES TRUST FUND \$ REQUEST =	\$ 529,102

V. OTHER FUNDS (This entire section must be filled out. Do not delete rows. Indicate "N/A" if row is not applicable.)

SOURCE OF FUNDS		MOUNT	Status	
Other Non-State \$ To Be Applied To Project During Project Period:		N/A	N/A	
Other State \$ To Be Applied To Project During Project Period:	N/A		N/A	
In-kind Services To Be Applied To Project During Project Period: Galatowitsch, Project Manager, 0.05 FTE	\$	21,274	secured	
Past and Current ENRTF Appropriation: ENRTF 2010 Subd.04a, Ecological Training Cooperative for Habitat Restoration (Galatowitsch, Project Manager); ENRTF 2013, Subd. 04L, Restoration Evaluations (Galatowitsch, Project Manager).	\$	750,000	spent	
Other Funding History:		N/A	N/A	

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Ensuring high-quality ecological restoration outcomes in Minnesota

This proposal addresses gaps* in the key components needed for successful restoration

Restoration organizations (teams)

Need to have adequate expertise for projects undertaken, know how to leverage external partners (volunteers, contractors, other organizations), and follow best practices.

Training: to be developed for leaders in organizations, inc. volunteer management best practice guidance **Certification standards**: to be developed for

scientists, hydrologists, species biologists or others

Training: exists —e.g. MN Ecologica

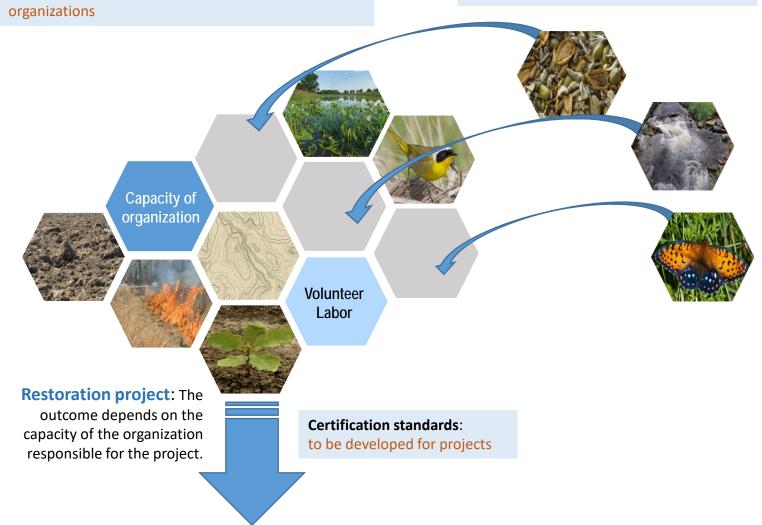
Training: exists –e.g., MN Ecological Restoration Training Cooperative **Certification standards**: National

Expertise of individuals may include

revegetation specialists, environmental

engineers, landscape architects, soils

professional standards recently established





* Gaps addressed by proposal: Highlighted in

ENRTF DO 204-F

Susan Galatowitsch has been a faculty member of the University of Minnesota for 25 years and is professor and Head of the Department of Fisheries, Wildlife and Conservation Biology. She is a Fellow of the Society of Wetland Scientists, a member of Minnesota's Academy of Distinguished Teachers, a past Fesler-Lampert Distinguished Chair of Urban and Regional Affairs, and a Fulbright Scholar to South Africa (University of Cape Town). Her research focuses on restoration of degraded aquatic systems and grasslands, climate change adaptation for wetlands and rivers, and management of invasive species. She served as the Director, Minnesota Aquatic Invasive Species Research Center for three years. In addition to 75research publications, she has authored two books, *Ecological Restoration* (Sinauer Associates) and *Restoring Prairie Wetlands: An Ecological Approach* (with Arnold van der Valk). Dr. Galatowitsch has a PhD from Iowa State University.

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