

Environment and Natural Resources Trust Fund

2026 Request for Proposal

General Information

Proposal ID: 2026-328

Proposal Title: MN Million: Locally Grown Tree Seedlings for Reforestation

Project Manager Information

Name: Julie Etterson

Organization: U of MN - Duluth

Office Telephone: (218) 726-8110

Email: jetterso@d.umn.edu

Project Basic Information

Project Summary: Our goal is to reforest one million acres. Continued LCCMR funding will increase the workforce of trained seed collectors and farmers who are raising tree seedlings for future Minnesota forests.

ENRTF Funds Requested: \$1,095,000

Proposed Project Completion: June 30, 2028

LCCMR Funding Category: Land (F)

Project Location

What is the best scale for describing where your work will take place?

Statewide

What is the best scale to describe the area impacted by your work?

Statewide

When will the work impact occur?

During the Project and In the Future

Narrative

Describe the opportunity or problem your proposal seeks to address. Include any relevant background information.

Minnesota has ~2,000,000 acres that could be reforested. These lands historically supported ≥ 25% tree cover (not native grasslands, urban cores, major highways, wetlands, or croplands). If these forests were restored, Minnesotans and our wildlife would benefit. Trees protect the land and water quality by stabilizing soil and reducing damage from extreme weather events, such as floods and droughts. Forests create shade and cooler temperatures through evapotranspiration while absorbing pollutants in the air and sequestering CO2. In other words, increasing Minnesota's forests increases our ecological resilience.

The long-term goal of this project is to reforest one million acres. In order to achieve this goal, we need to increase the availability of high-quality native tree seedlings. With previous LCCMR funding, we started to tackle this problem by ramping up the pipeline of tree seedling production. Specifically, we trained 150 people who now are qualified seed collectors and obtained wild seed from 13 tree species across the state (>5,000,000 seeds). These seeds were delivered into the hands of 29 small-scale farmers in northeastern Minnesota who were trained in best practices to produce seedlings of marketable size. Finally, the tree seedlings were sold and planted in fourteen restoration sites.

What is your proposed solution to the problem or opportunity discussed above? Introduce us to the work you are seeking funding to do. You will be asked to expand on this proposed solution in Activities & Milestones.

MN Million has a solid start. In the last two years, we developed critical physical infrastructure (e.g., seed cleaning equipment and solar-powered walk-in coolers that will increase seedling overwinter survival), digital platforms to track and share information (https://www.climatesmarttrees.com/), seed collector trainings, a farmer network (Farm and Forest Growers Cooperative), and research on best growing practices. These efforts to reinvest in our state have been broadly heralded ("Dear Minnesota" https://system.umn.edu/dearmn) and will be featured at the Bell Museum in April. You have helped us create a ground swell of enthusiasm for this reforestation movement.

With continued LCCMR support, we will expand our seed collector and seedling grower network, increase community engagement, and plan for self-sufficiency in the future. This phase of funding will support key personnel who will teach citizens how to collect genetically robust seed from wild tree populations and track their collections using an app that is under development. We will also provide technical assistance, resources, and guidance to new MN Million farmers as we onboard people across the state. Graduate and undergraduate researchers will study factors that increase seedling survival and restoration success that will be directly put into practice.

What are the specific project outcomes as they relate to the public purpose of protection, conservation, preservation, and enhancement of the state's natural resources?

We will enhance our state's natural resources by increasing the availability of locally grown, genetically diverse, native tree seedlings for forest restoration. To accomplish this goal, we will build a workforce of skilled seed collectors and a network of trained farmers to produce tree seedlings for Minnesota's future forests. Researchers will study the best seed sources for restoration in the diverse Minnesota habitats while training students to become the restoration professionals of the future. Finally, we will explore marketing strategies that will support project self-sufficiency and illustrate the economic potential of a Minnesota grown supply chain of resilient tree seedlings

Activities and Milestones

Activity 1: Expand the workforce of trained seed collectors in Minnesota with current partners at the The Nature Conservancy and UM Extension

Activity Budget: \$351,044

Activity Description:

Seed collection is a critical first step in MN Million. Trained collectors will help us increase seedling availability of species that are in short supply and those that are not currently available. Because we geolocate our collections, we will increase transparency with consumers about the seedling origin. This gives restoration professionals and other consumers the opportunity to find the best ecological fit for their planting location. Finally, our collection protocols capture genetic diversity which makes them more adaptable to the future.

Seed collector training is essential to the quality of MN Million seedlings. We are teaching citizens how to collect mature, genetically diverse seeds, and record their GPS collection locations in collaboration with UM Extension's newly created Seed Collector Training Program. In anticipation of having more numerous seed scouts/collectors in the field, we are developing a phone app to report seed maturation across the state so that collectors can rapidly mobilize and gather seeds when ripe. Our staff will also network with community members who have private forest stands that might be suitable for seed collection and obtain collection permits. An increased workforce of trained collectors will also benefit our DNR State Forest Nursery by addressing statewide seed shortages

Activity Milestones:

Description	Approximate Completion Date
Create and refine virtual learning modules within the UM Extension "Seed Collector Certification Program"	December 31, 2027
Help TNC contractors develop the phone app to facilitate communication among seed scouts and collectors	December 31, 2027
Collect seeds from across Minnesota with a focus on species that are not readily available	December 31, 2027
Recruit ten new paid seed collectors under the TNC subaward	January 31, 2028
Scout potential seed collection sites and obtain collection permits on an annual basis	January 31, 2028
Assist with UM seed collector training sessions and train new Americorps Climate Corps seed collectors	June 30, 2028

Activity 2: Support small-scale MN Million farmers by providing native tree seeds and technical expertise for seedling germination, growth, overwintering, and marketing

Activity Budget: \$339,638

Activity Description:

MN Million farmers are often recruited through UM Regional Sustainable Development Partnerships. Once enrolled, they choose their preferred species and receive tree seeds and loaned pots/trays. Because tree cultivation requires new expertise, we provide technical support on germination, seedling growth conditions, overwintering procedures, and market preparation. This is especially important for species that are not typically grown by nurseries but could be important in the future.

To support farmers, we developed germination/growing guides and these materials will be expanded as we include more tree species in MN Million. Each farmer also receives an annual site visit to provide advice and discuss problems. This helps us modify future recommendations and discover new mutually beneficial research directions. Farmers are also invited to monthly zoom meetings where the community of growers discusses how to develop and professionalize production methods. An important outgrowth of this has been the establishment of the Farm & Forest Growers

Cooperative. Coop members are eligible for additional funds from our USDA Climate-smart Commodities grant to enhance seedling-growing infrastructure at their farms.

Previous LCCMR funding paid for two solar-powered walk-in coolers for farmers to use for overwintering their seedlings. This will vastly improve survival (controlled environment, herbivore protection).

Activity Milestones:

Description	Approximate Completion Date
Improve the system of assigning seed to farmers and tracking seedlings as they are grown.	February 28, 2027
Process seed collections including cleaning, overwinter storage, and spring distribution to farmers	April 30, 2028
Recruit approximately 15 new MN Million seedling growers per year	June 30, 2028
Conduct annual visits to every grower and provide in-person and virtual problem solving opportunities	June 30, 2028
Continue to expand and improve farmer resources on our website,	June 30, 2028
https://www.climatesmarttrees.com/	

Activity 3: Research the best ways to grow diverse species of native trees and determine the geographical regions where they will thrive

Activity Budget: \$357,395

Activity Description:

LCCMR-supported students and technicians are studying two things: 1) the best germination/growth conditions for native tree species at MN Million farms and restoration sites, and 2) the best planting locations for seedlings sourced from different locations across the state.

Much of our research regarding growth conditions has focused on the value of inoculating seedlings with mycorrhizal fungal mutualists, a relatively new area in restoration-seedling preparation. Thus far, we have compared the seedling growth benefits of commercial vs. wild-collected mycorrhizae, the timing of inoculation, and compared different wild mycorrhizal source populations. We are also studying the value of mycorrhizal inoculation in field trials at sites that differ with respect to the degree of disturbance (e.g., fire, windthrow, logging, old field). Here, we are proposing to expand the number of tree species included in this research.

We are also studying the best planting locations for seedlings that originated from different locations in the state so that we know where to market the MN Million seedlings. At present, we have established field trials of northern red oak showing that populations have higher survival at sites 135-175 miles further north compared to sites closer to home, in alignment with climate change expectations

Activity Milestones:

Description	Approximate Completion Date
Conduct germination trials on species to replace dying ash (e.g., swamp white oak, hackberry)	December 31, 2026
Test new species to determine if they have enhanced growth with commercial/ wild mycorrhizal	December 31, 2027
treatments	
Increase the number of species in the tree growth trial plots (UMD, Whitefish Reservoir, Ely)	June 30, 2028
Establish direct-seed experiments (in soil), for species that are difficult to germinate in the greenhouse	June 30, 2028

Activity 4: Engage citizens outside of our partner group in outreach activities around the MN Million project

Activity Budget: \$46,923

Activity Description:

We will provide educational experiences and cultivate collaborative partnerships that empower communities to nurture the environment and embrace reforestation as a shared responsibility. Our people are deeply invested in this project and regularly promote concepts related to forest resilience and the power of trees to help us adapt to a changing climate by giving talks at local, regional, national and international meetings, making ourselves available for media interviews, and writing articles for the popular press and academic journals. To further strengthen our public-facing outreach, we will develop a TNC-hosted website with compelling project information that is linked to https://www.climatesmarttrees.com/ that provides technical materials for seed collectors and seedling growers.

We are also requesting special funding to collaborate with a Minnesota-based non-profit organization, Let's Plant Trees. This organization supports efforts to make environmental stewardship accessible and impactful by providing educational events, hands-on demonstrations, and tree seedling giveaways to private landowners. Through this collaboration, we will raise awareness about the objectives of MN Million while fostering community engagement and inspiring collective action for reforestation. In addition, we will continue to engage with other community groups, scout organizations, schools, and libraries, as they integrate tree planting into their diverse activities

Activity Milestones:

Description	Approximate Completion Date
Build a public-facing website hosted by The Nature Conservancy	February 28, 2026
Build a public-facing website hosted by The Nature Conservancy	March 31, 2026
Provide at least ten educational opportunities per year about MN Million to the general public	June 30, 2028
With "Let's Plant Trees," distribute 60,000 seedlings to ~2,000 recipients at 12 events.	June 30, 2028
Provide at least ten educational opportunities per year about MN Million to the general public	June 30, 2028
With "Let's Plant Trees," distribute 60,000 seedlings to ~2,000 recipients at 12 events.	June 30, 2028

Project Partners and Collaborators

Name	Organization	Role	Receiving Funds
David Abazs	Northeast Regional Sustainable Development Partnership	David Abazs will co-supervise AmeriCorps Climate Impact Corps service members and collaborate on continued development of an adaptive tree seedling supply chain (seeds, growing, planting markets). He will also contribute to envisioning the post-grant future of this project that will bring stability, durability and long term resilience to MN Million.	Yes
Mary Hammes	The Nature Conservancy	Mary Hammes will supervise a Minneapolis-based Seed Technician/Collector and support a community non profit organization that will raise awareness about MN Million goals while providing seedlings to private landowners. Mary is the lead PI on our USDA Climate-Smart Commodities grant and coordinates all aspects of the MN Million movement.	Yes

Long-Term Implementation and Funding

Describe how the results will be implemented and how any ongoing effort will be funded. If not already addressed as part of the project, how will findings, results, and products developed be implemented after project completion? If additional work is needed, how will this work be funded?

With previous LCCMR funding, we built a Minnesota-based native tree seedling supply chain by recruiting and training seed collectors and forging innovative partnerships with farmers. With this LCCMR request, we will expand our operations to include more tree species, collectors, and farmers. TNC and collaborators have also obtained a USDA Climate-smart Commodities grant for this project that funds infrastructure improvements for farmers and is funding a market study and economic plan for self-sufficiency. It is not clear yet whether ongoing private/public support will be necessary to maintain annual seed collection. We are also exploring the possibility of philanthropic support.

Other ENRTF Appropriations Awarded in the Last Six Years

Name	Appropriation	Amount Awarded
Minnesota Million: Seedlings for Reforestation and	M.L. 2023, , Chp. 60, Art. 2, Sec. 2, Subd. 08e	\$906,000
CO2 Sequestration		

Project Manager and Organization Qualifications

Project Manager Name: Julie Etterson

Job Title: Distinguished McKnight University Professor

Provide description of the project manager's qualifications to manage the proposed project.

Etterson is the Project Manager for this proposal and a previously funded LCCMR grant in collaboration with the Northeast Regional Sustainable Development Partnership and The Nature Conservancy (2023-061, Minnesota Million: Seedlings for Reforestation and CO2 Sequestration). She is a Distinguished McKnight University Professor in the Department of Biology at UMD where she has been for 23 years. She is also the Director of the Institute on the Environment-Duluth (https://ione.d.umn.edu/) where she catalyzes university-community collaborations that advance sustainability in our region. She is an active researcher (>\$13.7 million as PI/co-PI; >50 publications; >20 graduate students; >60 undergraduate research projects) and an award-winning teacher. Throughout her career, she has emphasized research that has community-driven applications that result in action on the ground. She is passionate about MN Million because she can apply her expertise in ecological genetics to benefit the environment, our communities, and our citizens.

Our team has made tremendous progress in producing native tree seedlings for reforestation. We collected >5,000,000

tree seeds from Minnesota forests and recruited numerous small-scale farmers to grow the seedlings. At UMD, Etterson mentored two graduate students and eleven undergraduates who studied whether seedling inoculation with mycorrhizal fungal mutualists increases restoration success. In a study of sites that differed with respect to disturbance (windthrow, logging, old field, etc.), we found that wildfire strips the soil of beneficial fungi that young seedlings depend upon for early growth and survival. Another student compared the benefits of commercial vs. natural sources of mycorrhizal inoculant. Both of these projects are ongoing but, in 2024, one undergraduate research project was presented at an international restoration conference and won the "best poster" award. Our collaborative team, composed people at different career stages and professions, are all truly dedicated to the success of MN Million.

Organization: U of MN - Duluth

Organization Description:

The University of Minnesota Duluth is a comprehensive regional university. Undergraduate students can choose from 16 bachelor degrees in 89 majors and 76 minors as well as eight certificates. UMD also offers graduate programs in 24 fields, 12 minors, and six certificates. UMD consistently ranks among the top Midwestern, regional universities in U.S. News and World Report's "America's Best Colleges" issue. UMD provides an alternative to both large research universities and small liberal arts colleges. UMD attracts students looking for a personalized learning experience on a medium-sized campus of a major university

The Department of Biology is the largest unit on campus with more than 650 students enrolled in our majors. We have a strong emphasis on research and teaching on ecological and evolutionary processes and will be starting a new major in Biodiversity, Conservation and Sustainability in fall 2025 (Etterson developed). Our graduate programs in Water Resources and Integrated Bioscience fuel the pipeline of young professionals into government, nonprofit, and educational careers around natural resources management in Minnesota. Our US EPA Cooperative Training Grant provides opportunities for students to work in both academic and applied biological fields. In contrast to national trends, enrollment in our department is growing.

Budget Summary

Category / Name	Subcategory or Type	Description	Purpose	Gen. Ineli gible	% Bene fits	# FTE	Class ified Staff?	\$ Amount
Personnel								
Summer		Three summer GRAs each with a 50% appt each year.			19%	0.76		\$56,148
GRAs		Three new MS graduate students will be recruited to						
		work on this project. Each of their research projects						
		will be developed to address specific needs related to						
		best practices for tree growing or best locations for						
		planting seedlings that originated from diverse						
		locations across the state. These projects will build						
		upon the findings of the two previous graduate						
		students and many undergraduates that were						
		previously funded by LCCMR						
Julie		We request one month of summer salary each year			27%	0.16		\$35,810
Etterson, PI		to augment Etteron's 9-month UMD salary. She will						
		supervise all aspects of this project with her two						
		collaborators, David Abazs (NE Regional Sustainable						
		Development Partnership) and subaward Mary						
		Hammes (The Nature Conservancy). Etterson will						
		recruit and mentor graduate students and						
		undergraduate students who will conduct research						
		that is designed to inform farmers about growth						
		practices and restoration ecologists about tree						
		planting locations. She will also coordinate the						
		activities of the four technicians on the grant, one of						
		whom will focus on research with students and						
		farmers, one of whom will focus on farmer technical						
		support, and two of whom are involved in all aspects						
		of seed collection and dispersal to farmers.			2=0/			40- 4-0
David Abazs,		We request 1.35 summer months/year at the NE			27%	0.22		\$35,473
Co-I		Regional Sustainable Development Partnership.						
		David will be involved in decision making on all						
		aspects of this work. However, his effort will be						
		especially directed toward support for the Farm and						
		Forest Growers cooperative that formal group of						
		farmers working on this project that he established						
		during the previous LCCMR grant.						

Adrian	Adrian and Paul, both technicians, will work as a	24%	2	\$164,839
Bethel,	team to meet our research expectations and provide		_	720.,000
technician	farmer technical support. One technician will take			
	the lead on research and, importantly, will engage			
	with farmers to determine the most critical questions			
	we could address to increase their tree seedling			
	production. This technician will also take			
	responsibility for expanding the experiment that we			
	monitored with funds from the previous LCCMR			
	grant which will determine how far from the site of			
	seed collection can tree seedlings survive. The other			
	technician will take the lead on providing farmer			
	technical support. This person organize visits to each			
	farm and organize monthly grower meetings where			
	people can troubleshoot problems and share ideas			
	about growth strategies. In addition, this person will			
	continue to update our website with grower guides			
	that provide direction and solutions to common			
	problems when germinating, raising, and			
	overwintering seedlings. This is especially important			
	as we include new species that are less commonly			
	grown by large nursery operations. Both technicians			
	will help mentor undergraduates who are growing			
	trees for this project at the UMD Land Lab.			
Paul Ojanen,	Adrian and Paul, both technicians, will work as a	24%	2	\$164,839
technician	team to meet our research expectations and provide			
	farmer technical support. One technician will take			
	the lead on research and, importantly, will engage			
	with farmers to determine the most critical questions			
	we could address to increase their tree seedling			
	production. This technician will also take			
	responsibility for expanding the experiment that we			
	monitored with funds from the previous LCCMR			
	grant which will determine how far from the site of			
	seed collection can tree seedlings survive. The other			
	technician will take the lead on providing farmer			
	technical support. This person organize visits to each			
	farm and organize monthly grower meetings where			
	people can troubleshoot problems and share ideas			
	about growth strategies. In addition, this person will			
	continue to update our website with grower guides			
	that provide direction and solutions to common			

Sidney Trimble, technician	problems when germinating, raising, and overwintering seedlings. This is especially important as we include new species that are less commonly grown by large nursery operations. Both technicians will help mentor undergraduates who are growing trees for this project at the UMD Land Lab. Sidney and Olivia, both technicians, will be involved in all aspects of seed collection. This includes training new seed collectors, reconnaissance to prospective collection sites, applying for seed	24%	2		\$142,031
	collection permits, collecting seeds, tracking all seed accessions, coordinating seed cleaning with undergraduates, organizing seed collections, assigning seed lots to farmers, preparation of seed orders for delivery to farmers.				
Olivia Jascor, technician	Sidney and Olivia, both technicians, will be involved in all aspects of seed collection. This includes training new seed collectors, reconnaissance to prospective collection sites, applying for seed collection permits, collecting seeds, tracking all seed accessions, coordinating seed cleaning with undergraduates, organizing seed collections, assigning seed lots to farmers, preparation of seed orders for delivery to farmers.	24%	2		\$142,031
Undergrad, academic year	1050 hours across several undergrads each year, Undergraduates play a key role in supporting the research mission. Equally important, they obtain critical research experience that enriches their education and provides them valuable skills when they are seeking jobs themselves. During the academic year (30 weeks), we will fund five students to work 7 hours per week in each year at that base undergraduate salary @ \$15.25 per hour.	0%	1.22		\$32,026
Undergrad, summer	1260 hours across several undergrads each year, During the summer (14 weeks), we will fund three students to work 30 hours per week at that base undergraduate salary @ \$15.25 per hour.	0%	1		\$38,430
				Sub Total	\$811,627
Contracts and Services					

The Nature Conservancy	Subaward	TNC's subaward will pay for 1 FTE per year for two years: .5 FTE Seed Technician @ \$27,579 p/year plus fringe benefits. who will train and coordinate volunteer collectors. A .5 FTE seasonal Seed Collector @ \$15,000 p/year, will assist with training and collection gaps volunteers cannot fulfill.			2		\$162,870
						Sub Total	\$162,870
Equipment, Tools, and Supplies							
	Tools and Supplies	Equipment lending pool	Racks and containers for seedlings growth that will be lent out to farmers from our UMD's Equipment Lending Pool to provide trays/cones for uniform seedlings growth conditions. 1,600 units @ \$36 per unit; 5, stainless steel filling covers @ \$68 each				\$59,700
	Tools and Supplies	Tools and supplies	supplies for field and lab research including: Promix BX @110 per bail (20 bails @\$110 each), I-buttons for climate monitoring at field sites (10 @\$60 each); 4 x 24, Rigid Seedling Protector Tubes, pk. of 250 (30 packs @\$120 each); Dyed 2-1/2 ft Bamboo Stakes, Green, Premium First Cut, 3/16in Diameter, Bundle of 1,000 (15 bundles @\$130 each); Dyed 2-1/2 ft Bamboo Stakes, Green, Premium First Cut, 3/16in Diameter, Bundle of 1,000 (15 bundles @\$130 each); Electronic calipers (5 @ \$30 each); Deepot tree pots trays for research, each tray holds 25 trees (80 trays @\$20 each); Deepot tree pots, pack of 270 pots (8 packs @\$235 each); Metal tree tags, pack of 500 @\$150 each (40 packs @\$150 each); 1/4 inch Hardware cloth for direct seeding experiment 3ft x 50ft roll (3 rolls @\$120 each); Chaining pins set of 11 t (20 sets @\$20 per set) for direct seeding experiment;				\$21,193

			Miscellaneous supplies (lab gloves, field gloves, write-in-the-rain paper, lab tape, sharpies approx. \$1000 per year			
					Sub Total	\$80,893
Capital Expenditures						
					Sub Total	-
Acquisitions and Stewardship						
					Sub Total	-
Travel In Minnesota						
	Miles/ Meals/ Lodging	Milage: The two seed technicians, and other people who are recruited to collect seed for this project, will be reimbursed for mileage. When the seed technicians are required to go on extended trips, they will be receive funding for accommodations and per diem at the standard U of MN rate. 1250 miles for 10 seed collectors per year @ \$.70 per mile; This also includes funding to travel to seed training events around the state.	Seed collection			\$17,500
	Miles/ Meals/ Lodging	Full Per Diem: 50 days of travel during each growing season to forecast potential seed yield per season, monitor seed maturation, conduct trainings for new seed collectors, and collect seeds @ \$79 per day	Seed collection			\$7,900
	Miles/ Meals/ Lodging	Partial Per Diem for 50 days of travel during each growing season to forecast potential seed yield per season, monitor seed maturation, conduct new seed collector trainings, and collect seeds @ \$59 per day	Seed collection			\$2,370
	Miles/ Meals/ Lodging	Lodging for 40 nights per year ravel during each growing season to forecast potential seed yield per season, monitor seed maturation, conduct trainings for new seed collectors, and collect seeds @ \$148 per day	See collection			\$11,840
					Sub Total	\$39,610

Travel					
Outside					
Minnesota					
				Sub	-
				Total	
Printing and					
Publication					
				Sub	-
				Total	
Other					
Expenses					
				Sub	-
				Total	
				Grand	\$1,095,000
				Total	

Classified Staff or Generally Ineligible Expenses

Category/Name Subcategory or Descripti		Description	Justification Ineligible Expense or Classified Staff Request
	Туре		

Non ENRTF Funds

Category	Specific Source	Use	Status	Amount
State				
			State Sub	-
			Total	
Non-State				
In-Kind	Unrecovered indirect costs. The current University rate for research projects is 54%.MTDC	Modified Total Direct Costs (MTDC) are those costs incurred for common or joint objectives that cannot be readily identified with a specific sponsored program or institutional activity. Examples include utilities, building maintenance, clerical salaries, and general supplies. (https://research.umn.edu/units/oca/fa-costs/direct-indirect-costs)	Secured	\$559,062
			Non State	\$559,062
			Sub Total	
			Funds	\$559,062
			Total	

Total Project Cost: \$1,654,062

This amount accurately reflects total project cost?

Yes

Attachments

Required Attachments

Visual Component

File: ecf7abbe-c1d.pdf

Alternate Text for Visual Component

The upper part of this figure shows the work flow of this project from seed collector training to seed collection, seed distribution to farmers, farmer training, and preparation of the seedlings for market. The bottom part shows how much this project has grown and improved with previous LCCMR funding....

Supplemental Attachments

Capital Project Questionnaire, Budget Supplements, Support Letter, Photos, Media, Other

Title	File
UMN Authorization Letter	99043cd9-b9a.pdf
Photos of the MN Million Project	bc6ab601-f44.pdf

Administrative Use

Does your project include restoration or acquisition of land rights?

No

Do you understand that travel expenses are only approved if they follow the "Commissioner's Plan" promulgated by the Commissioner of Management of Budget or, for University of Minnesota projects, the University of Minnesota plan?

Yes, I understand the UMN Policy on travel applies.

Does your project have potential for royalties, copyrights, patents, sale of products and assets, or revenue generation?

No

Do you understand and acknowledge IP and revenue-return and sharing requirements in 116P.10?

N/A

Do you wish to request reinvestment of any revenues into your project instead of returning revenue to the ENRTF?

N/A

Does your project include original, hypothesis-driven research?

Yes

Does the organization have a fiscal agent for this project?

Yes, Sponsored Projects Administration (UMD)

Does your project include the pre-design, design, construction, or renovation of a building, trail, campground, or other fixed capital asset costing \$10,000 or more or large-scale stream or wetland restoration?

No

Do you propose using an appropriation from the Environment and Natural Resources Trust Fund to conduct a project that provides children's services (as defined in Minnesota Statutes section 299C.61 Subd.7 as "the provision of care,

treatment, education, training, instruction, or recreation to children")?

No

Provide the name(s) and organization(s) of additional individuals assisting in the completion of this proposal:

Michael Jacob, Preawards Professional, Swenson College of Science and Engineering; Claudia Carranza, Director, Sponsored Projects Administration (UMD)

Do you understand that a named service contract does not constitute a funder-designated subrecipient or approval of a sole-source contract? In other words, a service contract entity is only approved if it has been selected according to the contracting rules identified in state law and policy for organizations that receive ENRTF funds through direct appropriations, or in the DNR's reimbursement manual for non-state organizations. These rules may include competitive bidding and prevailing wage requirements

N/A