



North Central Region Water Network Impact 2020 Request for Preproposals Applications Due March 14, 2017

About the North Central Region Water Network

The North Central Region Water Network is a 12-state collaboration between land-grant university extension educators and researchers and university, federal, state, NGO and industry partners. The Network is funded by the North Central Region Extension Directors, based on over a decade of USDA-NIFA funded water programs, and anchored by a core team of Extension-appointed state coordinators. The goals of the Network are to:

1. Increase connectivity and learning between university professionals and partners across a diversity of water-related disciplines and roles
2. Build capacity of universities to address multi-state water-related issues and opportunities
3. Generate measurable economic, environmental, and social impacts in the short and long-term with a focus on the following key issues:
 - a. Nutrient and manure management
 - b. Sustainable water supply
 - c. Climate change & adaptation
 - d. Soil health
 - e. Land use and development practices
 - f. Aquatic invasive species prevention and management
 - g. Youth water literacy and stewardship
 - h. Watershed planning and leadership

The Network is providing funding and staff support for two flagship initiatives as part of our Impact 2020 campaign. Successful preproposal teams will participate in a professional development and design meeting with experts from across the region to enhance skills in design and systems thinking, engage with partners, and expand and refine preproposals into full proposals. While not every successful preproposal will receive funding as a NCRWN flagship initiative, the design meeting will be a chance to develop and refine systems approaches to water extension and research. It will also be an opportunity to network with colleagues, potential funders and partners.

Eligibility

Lead applicants must have an Extension appointment/assignment at an 1862 land-grant institution in the North Central Region. Eligible lead institutions include: University of Illinois, Purdue University, Iowa State University, Kansas State University, Michigan State University, University of Minnesota, University of Missouri, University of Nebraska-Lincoln,

North Dakota State University, The Ohio State University, South Dakota State University, and University of Wisconsin. Lead applicants may enlist co-applicants and partners from other institutions and organizations to both receive funds and contribute cash and in-kind resources. We strongly encourage engagement of 1890 and 1994 land-grant institutions, as well as federally designated Hispanic Serving Institutions in the North Central Region.

Purpose of this Request for Preproposals and Award Size

The purpose of this request for applications is to support two water-related extension and applied research initiatives that can make our water, food, and energy systems measurably more resilient. The Network will award up to \$30,000 annually to each initiative for three years (up to \$90,000 total for each initiative). Up to \$60,000 is available annually for focus initiatives. In addition, successful teams will receive support from Network staff, including support for communication, evaluation, and development/fundraising.

All preproposals must:

1. Address North Central Region Water Network goals.
2. Include applicants (project director and co-directors) from at least 10 states.
3. Focus on land-grant university potential at the intersection of extension programming and applied research.
4. Demonstrate potential for transformative impact in water-related programming or land-grant university capacity to address water-related issues.

Application Format and Contents

Total application will not exceed 7 pages. The cover letter, abstract, logic model, and letters of support will not count against the 7-page limit. Font size must be at least 12 point, with margins of at least one inch in all directions and line spacing not exceeding six lines of text per vertical inch.

Contents should include:

1. Cover page
 - a. Title
 - b. Date
 - c. Initiative director and co-directors, including preferred contact information for each
 - d. An approval e-mail from [Extension State Water Coordinators](#) in participating states. The e-mail does not serve as an endorsement, but as proof of prior notification
2. Abstract (400 words or less)
 - a. Problem/opportunity
 - b. Big idea, including beneficiary audience, approach and solution
 - c. Deliverables and outcomes/impacts

3. Introduction
 - a. Context
 - b. Problem/opportunity
4. Response
 - a. The big idea that the initiative will address, including specific outcomes/impacts or problems that will be solved as a result of the project. Initiatives should be water-related, systems oriented, and achievable. In addition to water, they should consider food, energy, community development, public health and safety, and other positive or negative impacts of the big idea. Initiatives should focus on land-grant university potential at the intersection of extension programming and applied research.
 - b. Beneficiary audiences
 - c. Preliminary approaches and methods
 - d. Alignment with water-related plans and priorities such as:
 - i. [Mississippi River Gulf of Mexico Watershed Nutrient Task Force, state-level nutrient strategies](#), and [SERA-46/HTF Priorities for Collaborative Work](#)
 - ii. [Great Lakes Restoration Initiative](#)
 - iii. [The Red River Basin Commission](#)
 - iv. Groundwater conservation in the High Plains aquifer
 - v. [The APLU Natural Resources Roadmap](#)
 - vi. The US Water Alliance [One Water Roadmap](#)
 - e. Preliminary project deliverables and how they relate to Network goals. Please be sure to indicate how land-grant capacity (extension and research) to address water resource issues will be strengthened.
5. Resources that are available and applicable to the issue in multiple states, extension program areas, university academic departments, and partners.
6. Resource gaps, such as gaps in extension programs, applied research, or personnel that will be filled by the proposed initiative or that need to be filled for the initiative to succeed.
7. Multi-state committees engaged in research and extension activities pertinent to the project. See Appendix A for a list of multi-state committees engaged in activities that are either directly or indirectly related to water resource management. If there are no pertinent committees, please indicate this.
8. 1890 and 1994 land-grant institutions engaged in research and extension activities pertinent to the project. See Appendix B for a list of 1890 and 1994 land-grant institutions in the North Central Region.
9. Partners that are committed to working with land-grant universities on the big idea, including engagement of North Central Region Water Network Regional Administrative Council member organizations.
10. Logic model or concept map that includes:
 - a. Inputs
 - b. Outputs
 - c. Outcomes
 - d. Clear relationship between outputs and outcomes

For useful program planning and logic model information and templates, please see the [University of Wisconsin-Extension Program Development and Evaluation](#) resources. Moderate evaluation support will be provided to all successful applicants.

11. Potential complementary extramural resources (cash and in kind).
12. Literature cited
13. Preliminary budget and narrative.
14. Two or more letters of support from project partners and/or beneficiaries.

Proposal Submission and Notification

- Please submit your applications no later than **March 14, 2017, 5pm CT via e-mail** to:
 1. Rebecca Power: rlpower@wisc.edu
 2. Martha Martin: mlmartin3@wisc.edu
 3. Extension [State Points of Contact](#) for water in participating states.
- Include an approval e-mail from [State Points of Contact](#) for water in participating states. The e-mail does not serve as an endorsement, but as proof of prior notification.
- Submit all application components, including budget and letters of support, in a single pdf file named: *Projectdirectorlastname_firstname_year.pdf* (e.g. smith_jane_2017.pdf)
- Successful preproposal teams will be notified of review results no later than **March 24, 2017**.
- NCRWN Design Meeting will be scheduled in late **May, 2017**.

Appendix A

Multistate Research Projects and Committees Applicable to North Central Region Water Activities Organized by Region

Projects are organized into two main categories: Direct and Indirect. Direct projects directly relate to water management and issues in the projects focus. The indirect classification means water is not the center issue at study but that water impacts are part of the study in some aspect either large or small.

List of committee types and abbreviations:

Committee Types	Abbreviation
Multi-state Research	NC, NE, S, or W only
Coordinating Committee	CC
Development Committee	DC
Extension and Research Activity	ERA

Projects that **directly** apply to water management organized by region:

Project Number	Title	Link to Participants Directory
North Central (NC)		
NC1182	Nitrogen Cycling, Loading, and Use Efficiency in Forage-Based Livestock Production Systems (formerly NCT-196 and NC-189)	https://www.nimss.org/projects/view/mrp/outline/16696
NC1186	Water Management and Quality for Ornamental Crop Productions and Health	https://www.nimss.org/projects/view/mrp/outline/16856
NC1187	The Chemical and Physical Nature of Particulate Matter Affecting Air, Water and Soil Quality (NCR174)	https://www.nimss.org/projects/view/mrp/outline/16996
NC1189	Understanding the Ecological and Social Constraints to Achieving Sustainable Fisheries Resource Policy and Management	https://www.nimss.org/projects/view/mrp/outline/17897
NC1190	Catalysts for Water Resources Protection and Restoration: Applied Social Science Research	https://www.nimss.org/projects/view/mrp/outline/17900
NCERA217	Drainage design and management practices to improve water quality	https://www.nimss.org/projects/view/mrp/outline/16216
NCDC231	Collaborative for Research on Food, Energy, and Water Education	https://www.nimss.org/projects/view/mrp/outline/18363
Northeast (NE)		
NE1545	Design, Assessment, and Management of Onsite Wastewater Treatment Systems: Addressing the Challenges of Climate Change	https://www.nimss.org/projects/view/mrp/outline/17496
NE1438	Hydropedology of Vernal Pool Systems	https://www.nimss.org/projects/view/mrp/outline/16317

South (S)		
SERA6	Methodology, Interpretation, and Implementation of Soil, Plant, Byproduct, and Water Analyses	https://www.nimss.org/projects/view/mrp/outline/14556
SERA43	Southern Region Integrated Water Resources Coordinating Committee	https://www.nimss.org/projects/view/mrp/outline/17556
SERA46	Framework for Nutrient Reduction Strategy Collaboration: the Role for Land Grant Universities	https://www.nimss.org/projects/view/mrp/outline/16716
WEST (W)		
WERA103	Nutrient Management and Water Quality	https://www.nimss.org/projects/view/mrp/outline/17136
WERA1012	Managing and Utilizing Precipitation Observations from Volunteer Networks	https://www.nimss.org/projects/view/mrp/outline/15498
WERA1020	Western Region Multistate Coordinating Committee on Water Resources	https://www.nimss.org/projects/view/mrp/outline/14536
WERA1022	Meteorological and Climate Data to Support ET-Based Irrigation Scheduling, Water Conservation, and Water Resources Management (from WDC18)	https://www.nimss.org/projects/view/mrp/outline/13976
W3128	Scaling Micro-irrigation Technologies to Address the Global Water Challenge	https://www.nimss.org/projects/view/mrp/outline/16476
W3170	Beneficial Reuse of Residuals and Reclaimed Water: Impact on Soil Ecosystem and Human Health (formerly W2170)	https://www.nimss.org/projects/view/mrp/outline/15936
W3188	Soil, Water, and Environmental Physics Across Scales	https://www.nimss.org/projects/view/mrp/outline/16636
W3190	Management and Policy Challenges in a Water-Scarce World	https://www.nimss.org/projects/view/mrp/outline/16396

Projects that **indirectly** apply to water management organized by region:

Project Number	Title	Link to Participants Directory
North Central (NC)		
NC1034	Impact Analyses and Decision Strategies for Agricultural Research	https://www.nimss.org/projects/view/mrp/outline/17978
NC1178	Impacts of Crop Residue Removal for Biofuel on Soils (formerly NC1017)	https://www.nimss.org/projects/view/mrp/outline/16096
NC1179	Food, Feed, Fuel, and Fiber: Security Under a Changing Climate	https://www.nimss.org/projects/view/mrp/outline/16256
NC1186	Water Management and Quality for Ornamental Crop Production and Health	https://www.nimss.org/projects/view/mrp/outline/16856
NC1187	The Chemical and Physical Nature of Particulate Matter Affecting Air, Water and Soil Quality	https://www.nimss.org/projects/view/mrp/outline/16996
NC1195	Enhancing nitrogen utilization in corn based cropping systems to increase yield, improve profitability and minimize environmental impacts (NC1032/210)	https://www.nimss.org/projects/view/mrp/outline/17977
NCCC211	Cover crops to improve environmental quality in crop and biofuel production systems in the Great Lakes	https://www.nimss.org/projects/view/mrp/outline/17036

	and Upper Mississippi basins	
NCERA13	Soil Testing and Plant Analysis	https://www.nimss.org/projects/view/mrp/outline/18176
NCERA59	Soil Organic Matter: Formation, Function and Management	https://www.nimss.org/projects/view/mrp/outline/18036
NCERA180	Precision Agriculture Technologies for Food, Fiber, and Energy Production	https://www.nimss.org/projects/view/mrp/outline/18056
NCERA217	Drainage Design and Management Practices to Improve Water Quality	https://www.nimss.org/projects/view/mrp/outline/16216
NCERA221	Turfgrass and the Environment (was NCERA192)	https://www.nimss.org/projects/view/mrp/outline/17899
NCERA3	Soil and Landscape Assessment, Function and Interpretation	https://www.nimss.org/projects/view/mrp/outline/15996

Northeast (NE)		
NE1010	Breeding and Genetics of Forage Crops to Improve Productivity, Quality, and Industrial Uses	https://www.nimss.org/projects/view/mrp/outline/1314
NE1441	Environmental Impacts of Equine Operations	https://www.nimss.org/projects/view/mrp/outline/16316
NE1049	Community Health and Resilience	https://www.nimss.org/projects/view/mrp/outline/13996
NE1335	Resource Management in Commercial Greenhouse Production	https://www.nimss.org/projects/view/mrp/outline/15416
NECC1013	Strategies to Evaluate and Mitigate Ozone Impacts on the Structure and Function of Vegetation	https://www.nimss.org/projects/view/mrp/outline/13736
NECC1312	Northeast Coordinating Committee on Soil Testing	https://www.nimss.org/projects/view/mrp/outline/15896
NE1442	Poultry Production Systems and Well-being: Sustainability for Tomorrow	https://www.nimss.org/projects/view/mrp/outline/15899
NRSP003	The National Atmospheric Deposition Program (NADP)	https://www.nimss.org/projects/view/mrp/outline/16416
South (S)		
S1032	Animal Production Systems: Synthesis of Methods to Determine Triple Bottom Line Sustainability from Findings of Reductionist Research	https://www.nimss.org/projects/view/mrp/outline/15636 http://lgu.umd.edu/lgu_v2/homepages/member.cfm?trackID=15636
S1054	Bio-based Fibrous Materials and Cleaner Technologies for a Sustainable and Environmentally Responsible Textile Industry	https://www.nimss.org/projects/view/mrp/outline/14296
S1055	Biology, impact,	https://www.nimss.org/projects/view/mrp/outline/14636

	and management of soybean insect pests in soybean production systems	
SERA17	Organization to Minimize Nutrient Loss from the Landscape	https://www.nimss.org/projects/view/mrp/outline/15716
SERA25	Turf (IEG-16)	https://www.nimss.org/projects/view/mrp/outline/15836
WEST (W)		
W3045	AGROCHEMICAL IMPACTS ON HUMAN AND ENVIRONMENTAL HEALTH: MECHANISMS AND MITIGATION	https://www.nimss.org/projects/view/mrp/outline/17296
W3133	Benefits and Costs of Natural Resources Policies Affecting Ecosystem Services on Public and Private Lands	https://www.nimss.org/projects/view/mrp/outline/14376
W3147	Managing Plant Microbe Interactions in Soil to Promote Sustainable Agriculture	https://www.nimss.org/projects/view/mrp/outline/14876
W3185	Biological Control in Pest Management Systems of Plants	https://www.nimss.org/projects/view/mrp/outline/14316
WERA102	Climate Data and Analyses for Applications in Agriculture and Natural Resources	https://www.nimss.org/projects/view/mrp/outline/18289
WERA1008	Rangelands West Partnership	https://www.nimss.org/projects/view/mrp/outline/18236
WERA1014	Intensive Pasture Management for Sustainable Livestock Production in the Western US	https://www.nimss.org/projects/view/mrp/outline/15556
WERA1018	The Social-Ecological Resilience of Rangelands in Working Landscapes	https://www.nimss.org/projects/view/mrp/outline/14616

Appendix B
1890 and 1994 Land-grant Institutions in the North Central Region

1890 Institutions

[Lincoln University](#), Jefferson City, MO
[Central State University](#), Wilberforce, OH

1994 Institutions

[Bay Mills Community College](#), Brimley, MI
[Cankdeska Cikana Community College](#), Fort Totten, ND
[College of Menominee Nation](#), Keshena, WI
[Fond du Lac Tribal and Community College](#), Cloquet, MN
[Nueta Hidatsa Sahnish College \(formerly Fort Berthold Community College\)](#), New Town, ND
[Haskell Indian Nations University](#), Lawrence, KS
[Keweenaw Bay Ojibwa Community College](#), Baraga, MI
[Lac Courte Oreilles Ojibwa Community College](#), Hayward, WI
[Leech Lake Tribal College](#), Cass Lake, MN
[Little Priest Tribal College](#), Winnebago, NE
[Nebraska Indian Community College](#), Macy, NE
[Oglala Lakota College](#), Kyle, SD
[Saginaw Chippewa Tribal College](#), Mt. Pleasant, MI
[Sinte Gleska University](#), Mission, SD
[Sisseton Wahpeton Community College](#), Agency Village, SD
[Sitting Bull College](#), Fort Yates, ND
[Turtle Mountain Community College](#), Belcourt, ND
[United Tribes Technical College](#), Bismarck, ND
[White Earth Tribal and Community College](#), Mahanomen, MN