Please send water-related items to post in the weekly email to Carol Asiala at glrcadmin-l@mtu.edu. We would especially like to include on-campus seminar announcements, off-campus conferences and webinars, and notifications of new funding and other member highlights.

SAVE THE DATE: WORLD WATER DAY - March 27-28

On-Campus Seminars
New Funding Opportunities
Request Contribution numbers for GLRC Publications
Reports and Action Plans
Conferences & Webinars
Open RFPs of ongoing interest
Graduate Certificate in Sustainable Water Resources Systems
Student Research Grants (March 2) and Travel Grants (January 26)
Colloquium Course – UN5100 – Spring 2018
Seminar Speaker Support Program
Job Opportunities
Student Opportunities

1. SAVE THE DATE: WORLD WATER DAY - March 27-28

Michigan Tech will celebrate the 2018 World Water Day during the last week of March with events related to the United Nations theme, “Nature-based Solutions for Water.” Dr. Greg Kleinheinz, Ph.D., R.A., Viessmann Chair of Sustainable Technology & Professor of Environmental Engineering Technology at the University of Wisconsin Oshkosh, will be our guest speaker on Tuesday, March 27. Dr. Kleinheinz received his PhD at Michigan Tech in Biological Sciences, and has served as a past president of the Great Lakes Beach Association. His research interests include:

- Industrial Treatment Technologies
- Water and Wastewater Issues
- Biological Treatment of Air Emissions
- Construction Issues and Indoor Air Quality
- Environmental Public Health
- Microbial Indicators of Water Quality
- Microbial Pathogens in Recreational/Drinking Waters

World Water Day Poster Competition

Graduate and undergraduate students of all majors are encouraged to participate in the annual poster session. Cash prizes are awarded for two categories: 1) Original research posters presenting thesis work related to any aspect of water, and 2) Coursework/informational posters presenting literature-based research assigned as coursework, or of interest to the students.

Poster Registration Form

Link to all World Water Day Forms, Flyers, and Abstracts.
Consider attending a Poster Design Workshop at the Library. Select a date to register for a workshop:
1/26/2018, 12:00 -1:00 in Library 242
2/26/2018, 5:00 -6:00 in Library 242
3/6/2018, 12:00 -1:00 in Library 242

Other events in the planning stages include a panel discussion about "Nature-based Solutions for Water", a related Green Film, and the art show, “Water is Another Matter.”

Visit the Great Lakes Research Center news blog for a developing schedule of World Water Day events. Questions and ideas for World Water Day can be directed to the World Water Day committee at glrcadmin-l@mtu.edu.

2. On-Campus Seminars

Monday, January 22, 2018
Eric Seagren (CEE)
"A Pilot Program for Female PhD and Postdoc Mentoring Teams at TUM and Michigan Tech"
Environmental Engineering Graduate Seminar
GLRC 202 3:00 pm

Thursday, January 25, 2018
Dr. Andrew Bramburger, Research Associate
Natural Resources Research Institute, University of Minnesota Duluth
Little Things Show Big Changes in Big Lakes: What Algae Tell Us about a Century of Change in the Great Lakes
Biological Sciences Seminar
EERC 100 3:00 pm

3. New Funding Opportunities

New proposals can be submitted through the Great Lakes Research Center. Director Guy Meadows’ signature will be needed on the PI signature page of the transmittal sheet.

Research Excellence Fund Proposals
Proposals are being solicited for the Research Excellence Fund (REF) program, an internal award of the Office of the Vice President for Research.
Budget deadline: no later than 4 p.m. Thursday, March 1
Proposal deadline: no later than 4 p.m. Thursday, March 8
If you are interested in serving on an REF proposal review committee, please contact Natasha Chopp (nichopp@mtu.edu)

**Portage Health Foundation Mid-Career**
Proposal solicitations are being made for the Portage Health Foundation Mid-Career (PHF-MC) program, which is designed to support tenured faculty with an active NIH grant and/or consistent history of external funding with NIH or a related agency.

**Budget deadline:** no later than 4 p.m. Thursday, March 1
**Proposal deadline:** no later than 4 p.m. Thursday, March 8

**Faculty Fellow**
Applications are being solicited for the Faculty Fellow Program. The Faculty Fellow Program is sponsored by the Office of the Vice President for Research.

The Program expands familiarity with sponsored program administration and strategic planning among the faculty, develops leadership capacity among the faculty and improves sponsored programs administration and strategic planning through faculty input.

**Application deadline:** no later than 4 p.m. Thursday, Feb. 15

**Third Coast Conversations: Dialogues about Water in Michigan**
Michigan Humanities Council
**Deadline:** March 16, 2018
**Award Amount:** $5000, no cost share required

Eligible Applicants: The applicant organization must have 501(c)3 status. Individuals are not eligible. Sponsoring organizations are strongly encouraged to collaborate with other organizations on their proposed project.

**15th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet**
EPA-G2018-P3-Q1 – Air Quality
EPA-G2018-P3-Q2 – Safe and Sustainable Water Resources
EPA-G2018-P3-Q3 – Sustainable and Healthy Communities
EPA-G2018-P3-Q4 – Chemical Safety
US EPA
**Deadline:** February 7, 2018
**Webinar Registration:** January 11, 2018; 2:00 - 3:00 pm EST

**NOAA Great Lakes Habitat Restoration Project Grants under the U.S. Great Lakes Restoration Initiative**
NOAA-NMFS-HCPO-2018-2005487
Department of Commerce, NOAA
**Deadline:** March 12, 2018

**Environmental Education Local Grants Program for Region 5 -- Solicitation Notice for 2018**
EPA-EE-18-05
Environmental Protection Agency
Deadline: March 15, 2018

**Ocean Observatories Initiative Facility Board (OOIFB) Administrative Support Office**

18-527
National Science Foundation
Deadline: March 27, 2018

**Michigan’s Volunteer River, Stream, and Creek Cleanup Program**

Michigan Department of Environmental Quality (MDEQ) and Great Lakes Commission
Grants to local units of government to help clean Michigan waterways. Local units of government may partner with nonprofit organizations or other volunteer groups to carry out the work. A 25 percent minimum local match is required.
Deadline: February 20, 2018

**Operator Selection for Two Regional Class Research Vessels (RCRV 2 and RCRV 3)**

18-534
National Science Foundation
Deadline: April 19, 2018

**FY 2018 Joint Technology Transfer Initiative**

NOAA-OAR-OWAQ-2018-2005496
Department of Commerce, NOAA
Deadline: April 9, 2018

**NASA Education Fellowship Activity, 2018**

NNH18ZHA003N
National Aeronautics and Space Administration
Deadline: March 20, 2018

**NASA Earth and Space Science Fellowship 2018**

NASA
Solicitation: NESSF18
Deadline: February 1, 2018

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4. **Request Contribution numbers for GLRC Publications**

Please email Carol Asiala ([glrcadmin-l@mtu.edu](mailto:glrcadmin-l@mtu.edu)) when you are preparing publications. We are continuing to follow in the time-honored tradition of many Institutes by recognizing Contribution Numbers in papers that we publish in the peer-reviewed literature. You are welcome to participate. All you need to do is -

1. Contact Carol Asiala/Beth Hoy ([glrcadmin-l@mtu.edu](mailto:glrcadmin-l@mtu.edu)) to request a Contribution Number. Please provide as much citation info as possible - author(s), title, journal/book, etc.

2. Add to your acknowledgements section, "This is Contribution No. _ of the Great Lakes Research Center at Michigan Tech."
3. Get back to Carol when your paper is in print and give her the volume and page numbers.
Your participation is welcomed for this effort to enhance the visibility of the GLRC.

5. Reports and Action Plans

**Federal Science Partners Periodic Update**
January 20, 2018

**Great Lakes Connections**
International Joint Commission newsletter
January 2018

**Michigan State of the Great Lakes 2017**
Michigan Office of the Great Lakes

6. Conferences & Webinars

**OneNOAA Science Seminars Series**
Currently scheduled webinars: October 2017 - March 2018

**Tuesday, January 23, 2018**
**Dr. Lukas Oudejans, Physical Scientist**
US EPA’s National Homeland Security Research Center’s Decontamination & Consequence Management Division

**Underground Transport Remediation Research**
Homeland Security Research Program Webinar Series
2:00-3:00 PM EST
Please register at: [https://www.epa.gov/homeland-security-research/forms/webinar-underground-transport-remediation](https://www.epa.gov/homeland-security-research/forms/webinar-underground-transport-remediation)

**January 23-25, 2018**
**NCSE 2018: The Science, Business, and Education of Sustainable Infrastructure**
National Council for Science and the Environment
Washington, DC

**February 7 - 28, 2018**
CUAHSI Winter 2018 Cyberseminar Series
**Register here**, all seminars are at 1:00 pm ET

**February 7: Developing and Utilizing Stormwater’s “Big” Dataset**
Randy Dymond, Virginia Tech
February 14: Enabling “Smarter” Urban Watersheds
Branko Kerkez, University of Michigan

February 21: Urban Hydrology and the National Center for Infrastructure Modeling and Management (NCIMM)
Ben Hodges, University of Texas

February 28: Watershed-scale Effectiveness of Green Infrastructure
Aditi Bhaskar, Colorado State University

February 15-16, 2018
2nd International Conference on Climate Change
Colombo, Sri Lanka
Abstract Deadline: November 23, 2017

February 20-22, 2018
23rd Annual Wetland Science Conference
Wisconsin Wetlands Association
Oconomowoc, Wisconsin
- Call for Presentations & Posters – to be issued September 2017.
  SUBMISSION DEADLINE: Nov. 15, 2017
- Student Scholarships – APPLICATION DEADLINE: Jan. 12, 2018
  Note: we will also be holding a student presentation competition with cash prizes!
- Registration – to open December 2017. EARLY BIRD DEADLINE: Jan. 19, 2018

Tuesday, March 6, 2018
Great Lakes Conference
The Great Lakes: Focusing on the Present, Planning for the Future
Institute of Water Research, Michigan State University
Kellogg Center, East Lansing, MI

March 6-7, and June 13, 2018
Certified Natural Shoreline Professional (NSP) Training and Certificate Program
2018 Michigan Natural Shoreline Partnership (MNSP)
East Lansing, MI, and Maple Lake in Paw Paw, MI

March 8-9, 2018
American Water Resources Association - Wisconsin Section 2018 Annual
Appleton, WI

May 14-17, 2018
5th National Working Waterfronts and Waterways Symposium
Grand Rapids, MI

May 16-17, 2018
2018 AOC Annual Conference
7. Open RFPs of ongoing interest

2017 National Fish Habitat Action Plan
F17AS00016
Department of the Interior, Fish and Wildlife Service
Deadline: Applications are accepted on a rolling basis

Early Career Research Program
DE-FOA-0001761
Department of Energy - Office of Science
Pre-Application Deadline: January 25, 2018
Deadline: April 4, 2018

The Office of Science of the Department of Energy is pleased to announce the request for applications for the fiscal year 2018 Early Career Research Program. The funding opportunity for researchers in universities and DOE national laboratories, now in its ninth year, supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the disciplines supported by the DOE Office of Science.

Opportunities exist in the following program areas: Advanced Scientific Computing Research (ASCR); Biological and Environmental Research (BER); Basic Energy Sciences (BES), Fusion Energy Sciences (FES); High Energy Physics (HEP), and Nuclear Physics (NP).

Issue Date: 12/18/2017
Pre-Application Due Date: 01/25/2018 at 5 PM Eastern Time (required)
Encourage/Discourage Date: 02/27/2018 at 5 PM Eastern Time
Application Due Date: 04/04/2018 at 5 PM Eastern Time
Website for Early Career Research Program: https://science.energy.gov/early-career/

FY 2018 NATIONAL ENVIRONMENTAL INFORMATION EXCHANGE NETWORK GRANT PROGRAM
Environmental Protection Agency

Note: Michigan Tech is designated as an Instrumentality of the State of Michigan and if therefore eligible to lead a proposal
Deadline: January 26, 2018

Fiscal Year 2018 NMFS-Sea Grant Fellowships in Marine Resource Economics
NOAA-OAR-SG-2018-2005450
Department of Commerce, NOAA
Deadline: January 26, 2017

Fiscal Year 2018 NMFS-Sea Grant Fellowships in Population and Ecosystem Dynamics
NOAA-OAR-SG-2018-2005442
Oceanic and Atmospheric Research (OAR), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce
Deadline: January 26, 2018

Coastal Hypoxia Research Program (CHRP)
NOAA-NOS-NCCOS-2018-2005327
Department of Commerce, NOAA
Deadline: January 30, 2018

FY 2017 Continuation of Solicitation for the Office of Science Financial Assistance Program
DE-FOA-0001664
US Department of Energy
Deadline: January 31, 2018

National Estuarine Research Reserve System (NERRS) Land Acquisition and Construction Program for Fiscal Year 2018
NOAA-NOS-OCM-2018-2005340
Department of Commerce, NOAA
Deadline: February 1, 2018

Round 3 of Research to Operations Initiative: NGGPS and HFIP
NOAA-NWS-NWSPO-2018-2005325
Department of Commerce, NOAA
Deadline: February 7, 2018

Round 3 of Research to Operations Initiative: NOAA Testbeds
NOAA-NWS-NWSPO-2018-2005317
Department of Commerce, NOAA
Deadline: February 7, 2018

2018 Regional Ecosystem Prediction Program (REPP): Understanding Coral Ecosystem Connectivity in the western Gulf of Mexico
Summer Undergraduate Research Fellowship (SURF) Program
2018-NIST-SURF-01
Department of Commerce, National Institute of Standards and Technology
Deadline: February 12, 2018

Competition for a Cooperative Institute for Modeling the Earth System
NOAA-OAR-CIPO-2018-2005422
Department of Commerce, NOAA
Deadline: February 13, 2018

Identification and application of acidification thresholds in coastal ecosystems
NOAA-NOS-NCCOS-2018-2005323
Department of Commerce, NOAA
Deadline: February 13, 2018

Environmental Justice Collaborative Problem-Solving (EJCPS) Cooperative Agreement
EPA-OP-OEJ-18-01
Environmental Protection Agency
Deadline: February 16, 2018

2018 Ecosystem Health and Sustainable Fish Populations: Habitat Protection and Restoration
Great Lakes Fishery Trust
Proposal Deadline: February 23, 2018

Atmospheric System Research
DE-FOA-0001845
Department of Energy - Office of Science
Pre-Application Deadline: December 20, 2017
Deadline: February 28, 2018

Environmental System Science
DE-FOA-0001855
U. S. Department of Energy, Office of Science
Biological and Environmental Research
Pre-Application Deadline: December 20, 2017
Deadline: March 1, 2018

Climate and Societal Interactions
NOAA-OAR-CPO-2018-2005445
Department of Commerce, NOAA
Deadline: March 16, 2018
Earth System Model Development and Analysis
DE-FOA-0001862
Department of Energy - Office of Science
Pre-application Deadline: January 16, 2018
Application Deadline: March 19, 2018

NOAA National Sea Grant College Program 2018 Ocean, Coastal and Great Lakes
National Aquaculture Initiative
NOAA-OAR-SG-2018-2005489
Department of Commerce, NOAA
Deadline: March 30, 2018

Environmental System Science
DE-FOA-0001855
Department of Energy - Office of Science
Deadline: March 31, 2018

Environmental Literacy Grants: Supporting the education of K-12 students and the public for community resilience
NOAA-SEC-OED-2018-2005455
Department of Commerce, NOAA
Deadline: April 6, 2018

Fiscal Year 2019 National Sea Grant College Program Dean John A. Knauss Marine Policy Fellowship
NOAA-OAR-SG-2019-2005447
Department of Commerce, NOAA
Deadline: April 6, 2018

Great Lakes Restoration Initiative, Partners for Fish and Wildlife 2018
F18AS00051
Department of the Interior, Fish and Wildlife Service
Deadline: September 20, 2018

FY18 Funding Opportunity Announcement (FOA) for the Office of Naval Research (ONR) Navy and Marine Corps Science, Technology, Engineering & Mathematics (STEM), Education and Workforce Program
N00014-18-S-F003
Department of Defense - Office of Naval Research
Deadline: September 28, 2018

Coastal Program -- Great Lakes Restoration Initiative
F18AS00025
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2018
Coastal
F18AS00013
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2018

Partners for Fish and Wildlife
F18AS00011
Department of the Interior, Fish and Wildlife Service
Deadline: September 30, 2018

Interpreting the Conditions of the Nation's Freshwater, Wetland and Coastal Resources
US EPA
Research Associateship Programs, Fellowship Office, Policy and Global Affairs
Deadlines: February 1 ; May 1 ; August 1 ; November 1

MI DEQ Nonpoint Source Implementation RFP (FY2018)
2018 Draft Schedule for Implementation Grants
2/17/17: Watershed Plans must be submitted for Approval
6/12/17: Draft RFP information Released
7/19/17: RFP Released
7/19/17: Watershed Plans must be 319 Approved
7/25/17: Webinar – RFPs, Eligibility, Priorities, and NOI form
8/16/17: Notice of Intent Letters due
8/30/17: Invitations for Full Proposals sent via e-mail
9/12/17: Webinar – Priorities, Project and application tips
10/13/17: Proposals due
Proposal Review
Projects Awarded Early Summer 2018

MI DEQ Nonpoint Source RFP schedule (FY2018)
2018 Draft Schedule for Planning Grants
6/12/17: Draft RFP information Released
7/19/17: RFP Released
7/25/17: NPS Webinar
9/11/17: Proposals due
Proposal Review
Projects Awarded Mid-January 2018 -OR- after Federal FY18 Budget Approval

FY18 Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology
N00014-18-S-B001
Department of Defense, Office of Naval Research
Deadline: September 28, 2018

FY 2018 – 2020 - Broad Agency Announcement (BAA) Announcement Type: Initial
NOAA-NFA-NFAP0-2018-2005418
Department of Commerce, NOAA
Deadline: September 30, 2020
**NSF Announcements:**

<table>
<thead>
<tr>
<th>Program Nbr</th>
<th>Title</th>
<th>Proposal Deadline</th>
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<tbody>
<tr>
<td>16-503</td>
<td>National Science Foundation Research Traineeship Program (NRT)</td>
<td>Letter of Intent: December 6, 2017</td>
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<tr>
<td></td>
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<td>Proposal: February 6, 2018</td>
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<tr>
<td>17-512</td>
<td>Division of Environmental Biology (core programs) (DEB)</td>
<td>Pre-Proposal: Jan. 23, 2018</td>
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<tr>
<td></td>
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<td>Full Proposal: Aug 2, 2018</td>
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<tr>
<td>17-513</td>
<td>Long Term Research in Environmental Biology (LTREB)</td>
<td>Pre-Proposal: Jan. 23, 2018</td>
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<tr>
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<td>Full Proposal: Aug 2, 2018</td>
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<tr>
<td>17-543</td>
<td>Antarctic Research</td>
<td>next deadline not set yet</td>
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<tr>
<td>18-510</td>
<td>Research Coordination Networks in Undergraduate Biology Education (RCN-UBE)</td>
<td>January 30, 2018</td>
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<tr>
<td>17-537</td>
<td>Faculty Early Career Development Program (CAREER)</td>
<td>July 18, 2018: BIO, CISE, EHR</td>
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<td>July 19, 2018: ENG</td>
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<td>July 20, 2018: GEO, MPS, SBE</td>
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<tr>
<td>14-559</td>
<td>Opportunities for Promoting Understanding through Synthesis (OPUS)</td>
<td>August 1, 2018</td>
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<tr>
<td>15-506</td>
<td>Science, Technology, and Society (STS)</td>
<td>February 2, 2018</td>
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<td>August 3, 2018</td>
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<tr>
<td>15-577</td>
<td>Collections in Support of Biological Research (CSBR)</td>
<td>August 13, 2018</td>
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<tr>
<td>PD 98-1650</td>
<td>Biological Oceanography</td>
<td>February 15, 2018</td>
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<td>August 15, 2018</td>
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<tr>
<td>PD 98-1610</td>
<td>Physical Oceanography</td>
<td>February 15, 2018</td>
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<td>August 15, 2018</td>
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<tr>
<td>PD 98-1670</td>
<td>Chemical Oceanography</td>
<td>February 15, 2018</td>
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<td>August 15, 2018</td>
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<tr>
<td>PD 98-1620</td>
<td>Marine Geology &amp; Geophysics</td>
<td>Proposals Accepted Anytime</td>
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<tr>
<td>17-566</td>
<td>Geography and Spatial Sciences Program</td>
<td>September 6, 2018</td>
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<td>PD 17-7643</td>
<td>Environmental Sustainability</td>
<td>October 20, 2017</td>
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<tr>
<td>PD 17-1417</td>
<td>Chemical and Biological Separations</td>
<td>October 20, 2017</td>
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<tr>
<td>PD-17-1440</td>
<td>Environmental Engineering</td>
<td>October 20, 2017</td>
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<tr>
<td>PD 09-6882</td>
<td>Environmental Chemical Sciences (ECS)</td>
<td>October 31, 2017</td>
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<tr>
<td>13-589</td>
<td>Oceanographic Facilities and Equipment Support</td>
<td>November 15, 2017</td>
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<td>Ship Operations</td>
<td>November 15, 2017</td>
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<td>Oceanographic Technical Services</td>
<td>December 15, 2017</td>
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<td>Oceanographic Instrumentation</td>
<td>December 15, 2017</td>
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<td></td>
<td>Shipboard Scientific Support Equipment</td>
<td>Accepted Anytime</td>
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<tr>
<td></td>
<td>Ship Acquisition and Upgrade &amp; Other Facility Activities</td>
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<tr>
<td>15-536</td>
<td>Research Experiences for Teachers (RET) in Engineering and Computer Science</td>
<td>October 10, 2017</td>
</tr>
<tr>
<td>15-600</td>
<td>Integrated Earth Systems (IES)</td>
<td>November 14, 2017</td>
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<tr>
<td>18-503</td>
<td>Dynamics of Coupled Natural and Human Systems (CNH)</td>
<td>January 23, 2018</td>
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<tr>
<td>16-506</td>
<td>Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML)</td>
<td>December 8, 2017</td>
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<tr>
<td>15-568</td>
<td>Earth Sciences Postdoctoral Fellowships (EAR-PF)</td>
<td>January 9, 2018</td>
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<tr>
<td>15-504</td>
<td>Major Research Instrumentation Program (MRI)</td>
<td>January 10, 2018</td>
</tr>
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</table>
Limited Submission – Internal Deadline: October 25, 2017

<table>
<thead>
<tr>
<th>Program Description</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>National Robotics Initiative (NRI)</td>
<td>January 11, 2018</td>
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<tr>
<td>Ocean Technology and Interdisciplinary Coordination</td>
<td>February 15, 2018</td>
</tr>
<tr>
<td>Long-Term Ecological Research (LTER) - renewal proposals only</td>
<td>March 2, 2018</td>
</tr>
<tr>
<td>NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)</td>
<td>March 28, 2018</td>
</tr>
<tr>
<td>Hydrologic Sciences (HS)</td>
<td>Accepted Anytime</td>
</tr>
<tr>
<td>Climate and Large-Scale Dynamics</td>
<td>Accepted Anytime</td>
</tr>
<tr>
<td>Geomorphology and Land-use Dynamics (GLD)</td>
<td>Accepted Anytime</td>
</tr>
<tr>
<td>Earth Sciences: Instrumentation and Facilities (EAR/IF)</td>
<td>Accepted Anytime</td>
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<tr>
<td>Arctic Research Opportunities</td>
<td>Accepted Anytime</td>
</tr>
</tbody>
</table>

**NASA ROSES 2017**

<table>
<thead>
<tr>
<th>APPENDIX</th>
<th>PROGRAM</th>
<th>NOI/Step 1 DUE DATE</th>
<th>PROPOSAL DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.1</td>
<td>Earth Science Research Program Overview</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>A.8</td>
<td>Supporting UN Sustainable Development Goals 14 and 15 in the Context of Climate Variability and Change</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>A.24</td>
<td>DSCOVR Science Team</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>A.29</td>
<td>Rapid Response and Novel Research in Earth Science</td>
<td>N/A</td>
<td>Rolling submissions through 03/29/2018</td>
</tr>
<tr>
<td>A.34</td>
<td>Earth System Science Pathfinder (ESSP) Venture-class Science Investigations: Earth Venture Suborbital-3</td>
<td>Comments due by Oct 31, 2017</td>
<td>TBD</td>
</tr>
<tr>
<td>A.40</td>
<td>Earth Science Applications: Disaster Risk Reduction and Resilience</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>A.42</td>
<td>Advancing Collaborative Connections for Earth System Science</td>
<td>12/1/2017</td>
<td>1/31/2018</td>
</tr>
<tr>
<td>E.2</td>
<td>Topical Workshops, Symposia, and Conferences</td>
<td>N/A</td>
<td>Rolling submissions through 03/29/2018</td>
</tr>
</tbody>
</table>

8. Graduate Certificate in Sustainable Water Resources Systems

Currently enrolled students can download the Certificate Degree Schedule to plan their coursework. When they have completed the required courses, or are enrolled in the last ones, the certificate degree schedule should be submitted to Nancy Byers Sprague (nspr@mtu.edu) in the Graduate School.

**Request from GLRC:**

If you plan to complete the certificate, please email Carol Asiala (mtcws@mtu.edu)

- If you are not already on the glrc-student-community-l email list, you will be added and will receive announcements of water-related activities and the opportunity to apply for travel and research grants.
We would like to keep a list of students working towards the certificate, and then we also have an idea of which students need to enroll in the UN5100, the Water and Society colloquium course.

Links to certificate degree schedule:
Grad School:

9. Student Research Grants (March 2) and Travel Grants (January 26)

Research Awards: Graduate and undergraduate research awards are now due the first Friday in December and March of each year, and the 2nd Friday in August.

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>December 1, 2017</td>
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<tr>
<td>March 2, 2018</td>
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<tr>
<td>August 10, 2018</td>
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(research proposals will be accepted through Monday morning, Dec 4)

Each award can be up to $750. Awards can also be used to support undergraduate research in formal class settings (e.g. Enterprise, Senior Design, Pavlis, senior thesis, capstone classes etc.).

Applications and Requirements for Research Grants are online at:
http://www.mtu.edu/greatlakes/about/documents/glrc-studentresearchgrant.pdf

The research should support the Center's mission

Travel Awards: Graduate student travel grants ($500) are also available through the Center for Water and Society to present a water related paper at a conference. Applications are reviewed on the last Friday of each month, and must be submitted at least 2 weeks in advance of planned travel.

Applications for Travel grants are online at:

Student advisors must be a faculty member of the GLRC or the students must be supported on a GLRC-affiliated research grant.

Students will also be required to indicate how they would like to provide a return on the GLRC investment. Options include:
- presenting a poster at World Water Day in March;
- assisting with preparations for World Water Day;
- assisting with GLRC-sponsored outreach activities;
10. Colloquium Course – UN5100 – Spring 2018

Water & Society Colloquium Course
Course Number: UN5100, CRN 13023, 1 credit
Time/Location: Tuesdays 3:35-4:25 in Dow 875
Course Organizer: Noel Urban (nurban@mtu.edu)

Each week, participants will read a journal paper or scientific report in preparation of discussion sessions on Tuesdays. Select films from the Green Film series (held Thursday evenings) will be used in lieu of the paper/Tuesday discussions. Students not registered for the course and faculty are encouraged to participate.

Discussion sessions will be led by a group of students and faculty. This group will prepare a few questions or comments the week preceding the discussion and send these to the class as a way to begin focusing the discussion. The group will begin the discussion session with a 10-minute summary of the major issues covered by the preceding week’s reading and repeat the discussion questions.

This course (or SS 5325) is required for the CWS Graduate Certificate in Sustainable Water Resources Systems.

11. Seminar Speaker Support Program
Great Lakes Research Center members can apply for assistance in bringing seminar speakers to Michigan Tech. Lecture topics should be of interest to the GLRC, and the visit should correspond with GLRC goals. The Seminar Speaker Request form should be emailed to Carol Asiala at glrcadmin@mtu.edu.

12. Job Opportunities

Assistant Professor - Atmospheric Chemistry
Rutgers University–New Brunswick, New Jersey
Review of applications begins January 31, 2018

IAGLR Job Board
Job Opportunities in the Great Lakes

The Stewardship Network – Job Postings

State of Minnesota
Hydrologist & Natural Resources positions
https://statejobs.doer.state.mn.us/JobPosting
Search on Job Grouping=Environmental Sciences
Or Department = Pollution Control Agency  (includes summer jobs for students)
13. Student Opportunities

**CASE Workshop: Catalyzing Advocacy for Science and Engineering**
March 18-21, 2018, AAAS Headquarters, Washington, DC

Catalyzing Advocacy for Science and Engineering, or CASE, is an entry-level program organized to educate graduate students in STEM who are interested in learning about the role of science in policy-making and the federal policy-making process and to empower them with ways to become a voice for basic research. The application is open to AAAS member who are current graduate students studying science, technology, engineering, or math at a US university, who have limited experience or knowledge of science policy and advocacy.

This three-and-a-half day program will take place in Washington, DC, March 18-21, 2018, and AAAS will sponsor up to four students to participate alongside students who are supported by one of our 2018 sponsoring institutions. At the workshop, participants will gain knowledge on the structure and organization of Congress and the federal budget and appropriations process, learn tools for effective science communication and civic engagement, and participate in interactive seminars about policy-making and communication. On Wednesday, March 21, students will have the option to conduct meetings with their elected Members of Congress or congressional staff on Capitol Hill.

AAAS will cover all travel costs, including transportation and lodging, as well as the registration fee for the selected students.

The deadline for application is **January 26, 2018** at 11:59 PM EST. For additional details about the CASE Workshop, please go to [http://www.aaas.org/case](http://www.aaas.org/case).

Any additional questions may be directed to Joanne Carney (jcarney@aaas.org).

**NASA Education Fellowship Activity, 2018**
NNH18ZHA003N
National Aeronautics and Space Administration
Deadline: March 20, 2018

**NASA Earth and Space Science Fellowship 2018**
NASA
Solicitation: NESSF18
Deadline: February 1, 2018

**National Marine Fisheries Services (NMFS) Fellowships**
Deadline: January 26, 2018

**Great Lakes Commission – Sea Grant Fellowship**
Deadline: February 16, 2018
New International Joint Commission Fellowship  
Deadline: February 23, 2018

John A. Knauss Marine Policy Fellowship  
Michigan Sea Grant  
Deadline: February 23, 2018

NASA Student Airborne Research Program (SARP) 2018  
Application Deadline: January 31, 2018

Summer Internships  
National Great Rivers Research and Education Center  
Project summaries, requirements, and location for each project can be [downloaded here](#)  
Deadline: January 23, 2018

Fiscal Year 2018 NMFS-Sea Grant Fellowships in Marine Resource Economics  
NOAA-OAR-SG-2018-2005450  
Department of Commerce, NOAA  
Deadline: January 26, 2017

15th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet  
EPA-G2018-P3-Q1 – Air Quality  
EPA-G2018-P3-Q2 – Safe and Sustainable Water Resources  
EPA-G2018-P3-Q3 – Sustainable and Healthy Communities  
EPA-G2018-P3-Q4 – Chemical Safety  
US EPA  
Deadline: February 7, 2018  
Check the [P3 Website](#) for a planned January 2018 webinar about the P3 RFA and application process.

2018 Great Lakes Summer Fellows Program  
The Cooperative Institute for Great Lakes Research (CIGLR)  
Deadline: February 18, 2018

Summer 2018 Internships  
NOAA Chesapeake Bay Office  
Undergrad interns: Field technician, Oceanographic instrumentation support  
Undergrad or Grad Intern: Hydrodynamic and Hydrologic modeling

Skyrocket your Green Idea  
Commission for Environmental Cooperation (CEC) Youth Innovation Challenge  
Deadline: April 3, 2018; $5000 in seed funding  
Montreal, 15 January 2018—Show us what you’ve got! North American environmental ministers are calling on youth to champion bold ideas for green growth to address the complex sustainability challenges we currently face. Visit [cec.ideascale.com](http://cec.ideascale.com) to submit your science, technology and business innovations and get the chance to present.
your idea to North America’s top environmental officials, receive $5,000 in project seed funding, and meet with experts at the Commission for Environmental Cooperation (CEC).

“Innovation is the key to North American sustainable growth, enabling us to use our natural resources to grow our economies and quality of life while preserving the environment, ecosystems and human health. North American youth are creative and innovative and we are looking forward to their ideas on green growth,” said Scott Pruitt, Administrator of the US Environmental Protection Agency and CEC Council Chair.

The CEC Youth Innovation Challenge is open to residents of Canada, Mexico and the United States (and its territories) aged 18-30. Participants are encouraged to look beyond incremental solutions and propose bold ideas to leapfrog to solutions that address the complex sustainability challenges facing North America. Ideas will be evaluated based on four criteria: innovation, impact, feasibility/replicability and profitability. Students and young entrepreneurs are invited to propose ideas on a broad range of green growth topics.

The challenge opens 15 January 2018 and idea submissions are due by 3 April 2018.

This is your chance to make a difference! Start posting your ideas, or commenting and voting on those of others today! Ideas can be submitted in English, French or Spanish. For more information and guidelines, visit cec.ideascale.com.

Make sure to tell us about your green idea on Facebook or Twitter using the #Youth4Innovation hashtag. Follow the CEC on Facebook at www.facebook.com/ceconnect or our Twitter @CECweb.

**Fiscal Year 2019 National Sea Grant College Program Dean John A. Knauss Marine Policy Fellowship**
NOAA-OAR-SG-2019-2005447
Department of Commerce, NOAA
Deadline: April 6, 2018

**Graduate Research & Training Scholarship Program (GRTSP)**
NOAA
Applications accepted twice per year

**Research Associateship Programs**
The National Academies
4 application deadlines throughout the year
Participating agencies include: NOAA and EPA