Funding Opportunity Edition

Lunch and Learn with a Program Officer

May 6, 2022 | 12-1pm

You’re invited to our weekly "Lunch and Learn with a Program Officer" online Q&A session this Friday at noon. Bring your questions - you are welcome to join for the full time or for any part of that hour that you are free. This Friday’s session (5/6) will be hosted by Colleen Fitzgerald, PhD, vice president for research and creative activity at NDSU.

Prior to joining NDSU, Colleen served as an NSF program officer and this session will be your opportunity to ask questions about building NDSU capacity, increasing success rates for expenditures and federal grants, or anything else you may be curious about.

Join the Zoom session on Friday at Noon: [Zoom Link]

Learn more about this and other events on the [RCA Website].
The NSF Convergence Accelerator has issued a new funding opportunity [NSF-22-583] for three new research track topics:

- Track H: Enhancing Opportunities for Persons with Disabilities
- Track I: Sustainable Materials for Global Challenges
- Track J: Food & Nutrition Security

Learn more by joining one of the informational webinars provided by NSF:

- May 4, 2022; 12-2pm
- May 5, 2022; 2-4pm

Read the full announcement >>

Congratulations to all award recipients from March!

View the complete list online: PDF | Excel
The awards listed are externally funded projects. Each month one of the RCA Updates will include prior month awards.

See Award Reports from previous months >>
FUNDING OPPORTUNITIES

- Beckman: Young Investigator Program – Chemical and Life Sciences
- Congressionally Directed Medical Research Programs
- DoD: ONR Young Investigator Program
- DOE: Basic Research to Advance Frontiers of Science
- Fulbright Scholar Awards
- NASA: Early Stage Innovations
- NEH: Humanities Connections
- NIH: Bridges to the Baccalaureate – LIMITED
- NIH: Bridges to the Doctorate – LIMITED
- NIH: Director's Early Independence Award – LIMITED
- NIH: Director's Pioneer Award Program
- NSF / NIH: Science of Science Policy – Analyzing and Innovating Biomedical Research Enterprise
- NSF: Computational and Data-Enabled Science and Engineering
- NSF: Convergence Accelerator
- NSF: Emerging Frontiers in Research and Innovation - Engineered Living Systems (ELiS) and Brain-Inspired Dynamics for Engineering Energy-Efficient Circuits and Artificial Intelligence (BRAID)
- NSF: Social, Behavioral, and Economic Sciences
- Spencer Foundation: Small Research Grants on Education
- USDA: Education and Workforce Development
- USDA: Foundational and Applied Science

Upcoming Limited Submission Program Deadlines

Limited submission grant programs are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express interest in applying than NDSU is allowed to submit to the grant program. Email notifications of interest to ndsu.researchdev@ndsu.edu by close of business on the notification deadline.

If you identify a limited submission opportunity that is not on the list below, please notify ndsu.researchdev@ndsu.edu.
There are a number of limited submission grant programs with upcoming agency deadlines for which we did not receive any notifications of interest. A full list of those programs is available on the [Limited Submissions page](#). For these programs, marked "First to Notify," approval to move forward with a full proposal submission to the funder will be given on a first come, first served basis. Email notifications of interest to ndsu.researchdev@ndsu.edu.

- **NSF: Resilient & Intelligent NextG Systems**  
  Notification Deadline: 05/04/2022
- **NSF: IUSE / Professional Formation of Engineers**  
  Notification Deadline: 05/04/2022
- **NSF: Physics Frontiers Centers**  
  Notification Deadline: 05/11/2022
- **NIH: Director's Early Independence Award**  
  Notification Deadline: 05/25/2022
- **NIH: Bridges to the Baccalaureate**  
  Notification Deadline: 06/15/2022
- **NIH: Bridges to the Doctorate**  
  Notification Deadline: 06/15/2022

- **SAMHSA: Grants to Expand Substance Abuse Treatment Capacity in Adult and Family Treatment Drug Courts**  
  Deadline: 05/09/2022
- **NSF: Research Visioning for CISE - Future Research Directions**  
  Deadline: 05/10/2022
- **DOE: Data Visualization for Scientific Discovery, Decision-Making, and Communication**  
  Deadline: 05/10/2022
- **DOE EXPRESS: 2022 Exploratory Research for Extreme Scale Science**  
  Deadline: 05/12/2022
- **NSF: Training-based Workforce Development for Advanced Cyberinfrastructure**  
  Deadline: 05/16/2022
- **VentureWell: Course & Program Grants**  
  Deadline: 05/18/2022
• DOE: Randomized Algorithms for Combinatorial Scientific Computing
  *Deadline: 05/19/2022*

• NIH: Research Experience in Genomic Research for Data Scientists
  *Deadline: 05/25/2022*

• NIH: Undergraduate Research Training Initiative for Student Enhancement
  *Deadline: 05/26/2022*

• NIH: Team-based Design in Biomedical Engineering Education
  *Deadline: 05/30/2022*

• USDA-NIFA: American Rescue Plan Technical Assistance Investment Program
  *Deadline: 06/01/2022*

• NIH: Asthma and Allergic Diseases Cooperative Research Centers
  *Deadline: 06/03/2022*

• USDA-NIFA: Outreach and Assistance for Socially Disadvantaged Farmers and Ranchers and Veteran Farmers and Ranchers
  *Deadline: 06/08/2022*

• NIH: Genome Research Experiences to Attract Talented Undergraduates into Genomic Fields to Enhance Diversity
  *Deadline: 07/01/2022*

• WTGrant Scholars: Improving the Lives of Youth in the U.S.
  *Deadline: 07/06/2022*

• NIH: Faculty Institutional Recruitment for Sustainable Transformation Cohort
  *Deadline: 07/12/2022*

• NIH: Science Education Partnership Award
  *Deadline: 07/13/2022*

• Breast Cancer Alliance: Young Investigator Grants
  *Deadline: 07/22/2022*

• NSF: Research Traineeship *(one slot available)*
  *Deadline: 09/06/2022*

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**Looking for more funding opportunities?**

RCA subscribes to SPIN by InfoEd Global, a database of more than 40,000 funding opportunities. Through this subscription, SPIN is free for current NDSU faculty, staff, and students.
For more information and to access this database, visit the SPIN page on the RCA website. If you have questions, please contact ndsu.researchdev@ndsu.edu.

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**Beckman: Young Investigator Program – Chemical and Life Sciences**

The [Beckman Young Investigator (BYI) Program](https://www.beckmanfoundation.org/yip) provides research support to the most promising young faculty members in the early stages of their academic careers in the chemical and life sciences, particularly to foster the invention of methods, instruments and materials that will open up new avenues of research in science.

Eligibility requirements for the BYI program include:

- candidate is within the first four years of a tenure-track position, or an equivalent independent research appointment. Tenure-Track dates for the 2023 program must start after 1/1/2018 AND before 8/1/2022.
- candidates must be citizens or permanent residents of the United States at the time of award.
- applicants can have no more than $225,000 in direct, annualized external funding grants during any BYI Program Year (Aug-July) at time of application.
- applicants must have no more than 10 years post terminal degree; and no more than 5 years experience in a non-tenure track (not including postdoc position) or industry position.

See the [Beckman Foundation website](https://www.beckmanfoundation.org/yip) for full eligibility and application details.

*Letter of Intent deadline: August 1, 2022*
The Congressionally Directed Medical Research Program has multiple open funding opportunities in the following areas:

- Breast Cancer
- Kidney Cancer
- Lung Cancer
- Orthotics and Prosthetics Outcomes
- Ovarian Cancer
- Pancreatic Cancer
- Peer Reviewed Alzheimer's
- Peer Reviewed Cancer
- Peer Reviewed Medical
- Peer Reviewed Orthopaedic
- Prostate Cancer
- Rare Cancers

*Deadlines vary by program.*

**DoD: ONR Young Investigator Program**

The Office of Naval Research (ONR) is interested in receiving proposals for its Young Investigator Program (YIP) [N00014-22-S-F007]. ONR’s Young Investigator Program seeks to identify and support academic scientists and engineers who are in their first or second full-time tenure-track or tenure-track-equivalent academic appointment, who have received their PhD or equivalent degree on or after 01 January 2015, and who show exceptional promise for doing creative research. The objectives of this program are to attract outstanding faculty members of Institutions of Higher Education to the Department of the Navy’s Science and Technology (S&T) research program, to support their research, and to encourage their teaching and research careers. To see a list of ONR’s technology areas, visit the [ONR website](#).

*Deadline: July 1, 2022*

**DOE: Basic Research to Advance Frontiers of Science**
The U.S. Department of Energy (DOE) is soliciting proposals in a range of research opportunities to support DOE’s clean energy, economic, and national security goals. The funding will advance the priorities of DOE’s Office of Science (SC) and its major programs, including Advanced Scientific Computing Research, Basic Energy Sciences, Biological and Environmental Research, Fusion Energy Sciences, High Energy Physics, Nuclear Physics, Isotope R&D and Production and Accelerator R&D and Production.

The DOE Funding Opportunity Announcement (FOA), informally known as the “Open Call,” is issued annually at the beginning of each Fiscal Year (FY). It provides a vehicle for the Office of Science to solicit applications for research support in areas not covered by more specific, topical FOAs that are issued by the office over the course of the Fiscal Year. The FOA, titled “FY 2022 Continuation of Solicitation for the Office of Science Financial Assistance Program,” can be found on the Office of Science funding opportunities page. This opportunity will remain open through September 30, 2022.

Fulbright Scholar Awards

The Fulbright U.S. Scholar Program offers over 400 awards in more than 130 countries for U.S. citizens to teach, conduct research and carry out professional projects around the world. College and university faculty, as well as artists and professionals from a wide range of fields are eligible to apply.

There are multiple types of awards, but Fulbright Scholar Awards comprise the bulk of awards offered and include opportunities for professionals, artists, and scholars at all career-levels. Location and eligibility vary across all awards, and some awards may be restricted to certain career levels or types of scholars. Please see here for three unique opportunities within the U.S. Scholar program:

- Global Scholar Award
- Public Policy Fellowship
- Arctic Initiative

Deadline: September 15, 2022
NASA: Early Stage Innovations

The National Aeronautics and Space Administration (NASA) Headquarters has released a solicitation, titled Early Stage Innovations (ESI), as an appendix to the Space Technology Mission Directorate (STMD) umbrella NASA Research Announcement (NRA) titled "Space Technology Research, Development, Demonstration, and Infusion 2022 (SpaceTech-REDDI-2022). The Space Technology Research Grants (STRG) Program within STMD seeks proposals from accredited U.S. universities to develop unique, disruptive, or transformational space technologies that have the potential to lead to dramatic improvements at the system level — performance, weight, cost, reliability, operational simplicity, or other figures of merit associated with space flight hardware or missions. The projected impact at the system level must be substantial and clearly defined. This solicitation exclusively seeks proposals that are responsive to one of the five topics:

- Topic 1 – Development of Fusion Plasma Direct Energy Conversion Processes for Thrust and Electric Power Production
- Topic 2 – Development of Deterministic High Bandwidth Onboard Wireless Networks
- Topic 3 – Improved Methods for Characterization of Blunt-Body Dynamic Stability
- Topic 4 – Advancing Manufacturing Approaches for Scalable Functionally Graded Materials for Space Applications
- Topic 5 – Development of Materials and Manufacturing Processes for High-Temperature Radiators

Notice of Intent Deadline: May 25, 2022

NEH: Humanities Connections

The Humanities Connections program seeks to expand the role of the humanities in undergraduate education at two- and four-year institutions. Awards support innovative curricular approaches that foster partnerships among humanities faculty and their counterparts in the social and natural sciences and in pre-service or professional programs (such as business, engineering, health sciences, law, computer science, and other technology-driven fields), in order to encourage and develop new integrative learning opportunities for students.

Humanities Connections projects must include:
• substantive and purposeful integration of the subject matter, perspectives, and pedagogical approaches of two or more disciplines (with a minimum of one in and one outside of the humanities);
• collaboration between faculty from two or more departments or schools at one or more institutions;
• experiential learning as an intrinsic part of the proposed curriculum; and
• long-term institutional support for the proposed curriculum innovation(s).

Competitive applications will demonstrate:
• that the proposed curricular project expands the role of the humanities in addressing significant and compelling topics or issues in undergraduate education at the applicant institution(s);
• that these projects develop the intellectual skills and habits of mind cultivated by the study of the humanities; and
• that faculty and students will benefit from meaningful collaborations in teaching and learning across disciplines as a result of the project.

The Humanities Connections program includes two funding levels: Planning and Implementation.

The 2022 application instructions will be available July 1, 2022. The deadline for applications is September 1, 2022.

NIH: Bridges to the Baccalaureate – Limited Submission Program

Limited submission grant programs are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express interest in applying than NDSU is allowed to submit to the grant program.

NIH B2B: Notify RCA by June 15, 2022, if you are interested in submitting to this program.

The goal of the Bridges to the Baccalaureate Research Training Program [PAR-22-
The goal of the Bridges to the Doctorate Research Training Program is to provide structured activities to prepare a diverse cohort of research-oriented students to transfer from associate degree-granting institutions to baccalaureate degree-granting institutions and complete a baccalaureate degree in disciplines related to the biomedical sciences. This funding opportunity announcement (FOA) provides support to eligible, domestic institutions to develop and implement effective, evidence-informed approaches to biomedical training and mentoring that will keep pace with the rapid evolution of the research enterprise. The National Institute of General Medical Sciences (NIGMS) expects that the proposed research training programs will incorporate didactic, research, mentoring, and career development elements. This program requires strong partnerships between at least two post-secondary educational institutions offering science, technology, engineering, or mathematics (STEM) degrees. At least one partner must be an institution that offers the associate degree as the highest STEM degree and the other partner(s) must offer baccalaureate degrees in biomedically relevant STEM fields. Upon completion of the Bridges to the Baccalaureate Research Training program, trainees are expected to be well positioned to pursue research-oriented biomedical higher degree programs or enter careers in the biomedical research workforce.

**LIMITED SUBMISSION:** Only one application per institution is allowed.
to develop a diverse pool of scientists earning a Ph.D. who have the skills to successfully transition into careers in the biomedical research workforce. This funding opportunity announcement (FOA) provides support to eligible, domestic institutions to develop and implement effective, evidence-informed approaches to biomedical training and mentoring that will keep pace with the rapid evolution of the research enterprise. The National Institute of General Medical Sciences (NIGMS) expects that the proposed research training programs will incorporate didactic, research, mentoring, and career development elements to prepare trainees for careers that will have a significant impact on the health-related research needs of the Nation.

**LIMITED SUBMISSION:** NIGMS will accept only one application per institution.

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**NIH: Director's Early Independence Award – Limited Submission Program**

*Limited submission grant programs* are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express interest in applying than NDSU is allowed to submit to the grant program.

**NIH Early Independence:** [Notify RCA](#) by May 25, 2022, if you are interested in submitting to this program.

The NIH Director’s Early Independence Award supports exceptional junior investigators who wish to pursue independent research soon after completion of their terminal doctoral degree or post-graduate clinical training, thereby forgoing the traditional post-doctoral training period and accelerating their entry into an independent research career. For the program to support the best possible researchers and research, applications are sought which reflect the full diversity of the research workforce. Individuals from diverse backgrounds, including those from underrepresented groups and from the full spectrum of eligible institutions in all
geographic locations, are strongly encouraged to apply to this Funding Opportunity Announcement. In addition, applications in all topics relevant to the broad mission of NIH are welcome, including, but not limited to, topics in the behavioral, social, biomedical, applied, and formal sciences and topics that may involve basic, translational, or clinical research. The NIH Director's Early Independence Award is a component of the High-Risk, High-Reward Research program of the NIH Common Fund.

LIMITED SUBMISSION: A maximum of two applications per institution are allowed.

NIH: Director's Pioneer Award Program

The NIH Director’s Pioneer Award Program supports individual scientists of exceptional creativity who propose highly innovative research projects with the potential to produce a major impact on broad, important areas relevant to the mission of NIH. Applications to this solicitation [RFA-RM-22-018] in all topics relevant to the broad mission of NIH are welcome, including, but not limited to, topics in the behavioral, social, biomedical, applied, and formal sciences and topics that may involve basic, translational, or clinical research. To be considered pioneering, the proposed research must reflect substantially different scientific directions from those already being pursued in the investigator’s research program or elsewhere. The NIH Director’s Pioneer Award is a component of the High-Risk, High-Reward Research (HRHR) Program of the NIH Common Fund.

Deadline: September 9, 2022

NSF / NIH: A Science of Science Policy Approach to Analyzing and Innovating the Biomedical Research Enterprise (SCISIPBIO)

The National Science Foundation (NSF) and the National Institutes of Health (NIH) are interested in proposals that will propel our understanding of the biomedical research enterprise by drawing from the scientific expertise of the science of science policy research community [NSF 19-547].
Therefore, the NIH National Institute of General Medical Sciences (NIGMS) and the NSF Social, Behavioral, and Economic Sciences (SBE) Directorate are partnering to enable collaboration in research between the SciSIP program and NIGMS. This partnership will result in a portfolio of high quality research to provide scientific analysis of important aspects of the biomedical research enterprise and efforts to foster a diverse, innovative, productive and efficient scientific workforce, from which future scientific leaders will emerge.

Prospective investigators are strongly encouraged to discuss their proposals with the cognizant Program Officers before submission to determine project relevance to the priorities of both SBE and NIGMS. Specific questions pertaining to this solicitation can also be directed to the cognizant Program Officers.

*Deadline: September 9, 2022*

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**NSF: Computational and Data-Enabled Science and Engineering (CDS&E)**

The goal of the CDS&E meta-program is to identify and capitalize on opportunities for major scientific and engineering breakthroughs through new computational and data-analysis approaches and best practices. The CDS&E meta-program supports projects that harness computation and data to advance knowledge and accelerate discovery above and beyond the goals of the participating individual programs. The intellectual drivers may be in an individual discipline, or they may cut across more than one discipline in various Divisions and Directorates. A CDS&E proposal should enable and / or utilize development and adaptation of advances in research and infrastructure in computational and data science.

*Deadlines vary by program.*

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**NSF: Convergence Accelerator**

The National Science Foundation (NSF) Convergence Accelerator program addresses national-scale societal challenges through use-inspired convergence research. Using a convergence approach and innovation processes like human-centered design, user
discovery, and team science and integration of multidisciplinary research, the Convergence Accelerator program seeks to transition basic research and discovery into practice—to solve high-impact societal challenges aligned with specific research themes (tracks).

This solicitation for FY 2022 [NSF 22-583] invites proposals for the following Track Topics:

**Track H: Enhancing Opportunities for Persons with Disabilities**
The NSF Convergence Accelerator’s Track H: Enhancing Opportunities for Persons with Disabilities (PWDs) will serve as a platform to bring together researchers, practitioners, and stakeholders from a wide range of disciplines and sectors to work on use-inspired solutions to enhance quality of life and employment access and opportunities for PWDs.

**Track I: Sustainable Materials for Global Challenges**
The objective of the NSF Convergence Accelerator's Track I: Sustainable Materials for Global Challenges will be to converge advances in fundamental materials science with materials design and manufacturing methods in an effort to couple their end-use and full life-cycle considerations for environmentally- and economically-sustainable materials and products.

**Track J: Food & Nutrition Security**
The overarching goal of the NSF Convergence Accelerator's Track J: Food & Nutrition Security will be to accelerate convergence across food and nutrition sectors to address intertwined challenges in supporting population health, combating climate change, and addressing the nutritional needs of the most vulnerable by empowering youth, women, and disadvantaged communities.

*Letter of Intent deadline: May 31, 2022*

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**NSF: Emerging Frontiers in Research and Innovation - Engineered Living Systems (ELiS) and Brain-Inspired Dynamics for Engineering Energy-Efficient Circuits and Artificial Intelligence (BRAID)**
The Emerging Frontiers in Research and Innovation (EFRI) program of the NSF Directorate for Engineering (ENG) serves a critical role in helping ENG focus on important emerging areas in a timely manner. This solicitation [NSF 21-615] is a funding opportunity for interdisciplinary teams of researchers to embark on rapidly advancing frontiers of fundamental engineering research. For this solicitation, NSF will consider proposals that aim to investigate emerging frontiers in one of the following two research areas:

- Engineered Living Systems (ELiS)
- Brain-Inspired Dynamics for Engineering Energy-Efficient Circuits and Artificial Intelligence (BRAID)

Letter of Intent deadline: September 12, 2022

NSF: Social, Behavioral, and Economic Sciences

The National Science Foundation Directorate of Social, Behavioral, and Economic Sciences has a number of funding programs with upcoming deadlines:

- **Developmental Sciences** [PD 08-1698]
  
  Deadline: July 15, 2022

- **Social Psychology** [PD 98-1332]
  
  Deadline: July 15, 2022

- **Linguistics** [PD 98-1311]
  
  Deadline: July 15, 2022

- **Biological Anthropology** [PD 98-1392]
  
  Deadline: July 20, 2022

- **Law & Science** [PD 21-128Y]
  
  Deadline: August 1, 2022

- **Accountable Institutions and Behavior** [PD 19-120Y]
  
  Deadline: August 15, 2022

- **Cultural Anthropology Program** [NSF 18-560]
  
  Deadline: August 15, 2022

- **Sociology** [PD 98-1331]
  
  Deadline: August 15, 2022

- **Economics** [PD 98-1320]
  
  Deadline: August 18, 2022
Spencer Foundation: Small Research Grants on Education

The Small Research Grants Program supports education research projects that will contribute to the improvement of education, broadly conceived, with budgets up to $50,000 for projects ranging from one to five years.

This program is “field-initiated” in that proposal submissions are not in response to a specific request for a particular research topic, discipline, design, method, or location. The goal for this program is to support rigorous, intellectually ambitious and technically sound research that is relevant to the most pressing questions and compelling opportunities in education.

Deadline: August 9, 2022; 12pm

USDA: Education and Workforce Development

The Agriculture and Food Research Initiative (AFRI) - Education and Workforce Development (EWD) program focuses on developing the next generation of research, education, and extension professionals in the food and agricultural sciences. In 2022, the National Institute of Food and Agriculture (NIFA) requests applications for the AFRI’s Education and Workforce Development program areas to support:

1. professional development opportunities for K-14 educational professionals;
2. non-formal education that cultivates food and agricultural interest in youth;
3. workforce training at community, junior, and technical colleges;
4. training of undergraduate students in research and extension;
5. fellowships for predoctoral candidates and postdoctoral scholars; and
6. special workforce development topics.

Deadlines vary by program area.

USDA: Foundational and Applied Science

The Agriculture and Food Research Initiative (AFRI) Foundational and Applied Science Program supports grants in six AFRI priority areas to advance knowledge in both fundamental and applied sciences important to agriculture:

1. Plant Health and Production and Plant Products;
3. Food Safety, Nutrition, and Health;
4. Bioenergy, Natural Resources, and Environment;
5. Agriculture Systems and Technology; and
6. Agriculture Economics and Rural Communities.

*Deadlines vary by program area.*

Have questions, ideas, or suggestions for the RCA Update?

[Contact Us]

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*The Office of Research and Creative Activity (RCA) sends weekly emails to NDSU faculty and staff to provide current information on various topics including funding opportunities, grant program changes, research resources, deadlines, notices, and training.*

*You are receiving this notification through the NDSU official employee listserv or sub-list. The official listserv refreshes after each pay period.*
North Dakota State University does not discriminate on the basis of age, color, disability, gender expression/identity, genetic information, marital status, national origin, public assistance status, race, religion, sex, sexual orientation, or status as a U.S. veteran. Direct inquiries to: Equal Opportunity Specialist, Old Main 201, 701-231-7708 or Title IX/ADA Coordinator, Old Main 102, 701-231-6409.

We collectively acknowledge that we gather at NDSU, a land grant institution, on the traditional lands of the Oceti Sakowin (Dakota, Lakota, Nakoda) and Anishinaabe Peoples in addition to many diverse Indigenous Peoples still connected to these lands. We honor with gratitude Mother Earth and the Indigenous Peoples who have walked with her throughout generations. We will continue to learn how to live in unity with Mother Earth and build strong, mutually beneficial, trusting relationships with Indigenous Peoples of our region.