



19th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet

Informational Webinar for Applicants

EPA P3 RFA



September 15, 2021



Webinar Objectives

- Review application information in the EPA P3 RFA:

19th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet
- Provide guidelines for eligibility, submission, and technical aspects of application process
- Answer questions about the application process

- Please keep yourself **muted** during the presentation. 
- Questions will be addressed **after** the presentation.
- You may type your questions in the comment box. 
- No specific research project or idea can be discussed but clarifying questions regarding what is written in the RFA announcement may be answered.
- These slides and Q&A's will be posted on the website.

- **Technical Contact:** Kyle Spatz, Project Officer (spatz.kyle@epa.gov); phone: 202-564-3201
- **Eligibility Contact:** Ron Josephson, Eligibility & Peer Review Officer (josephson.ron@epa.gov); phone: 202-564-7823
- **Electronic Submissions:** Debra M. Jones, Administrative Officer (jones.debram@epa.gov); phone: 202-564-7839





P3 Program Highlights

- Two-phase grants competition
- Teams of undergraduate and/or graduate students to design projects for sustainability
- Support innovative research on project designs
- Developed by an interdisciplinary team of students to:
 - Improve quality of life for **people**
 - Promote **prosperity** by developing local economies, and
 - Protect the **planet** by conserving resources and minimizing pollution



P3 Program Goals

Engage and educate the next generation of students and communities with the P3 Approach

Support innovative projects that implement the P3 Approach, especially in communities with the greatest needs

Demonstrate the technologies to prove their effectiveness and value

Foster development of enterprises to disseminate the technologies in the target communities and elsewhere



RFA & Award Information

- RFA will close on October 27, 2021 at 11:59:59 pm Eastern Time
- Estimated Number of Awards: Approximately 16 Phase I and four Phase II
- Anticipated Funding Amount: \$800,000 total for all awards.
- Potential Funding per Award and Duration:
 - **Phase I:** One year and up to **\$25,000 total**
 - National Student Design Expo, 2023
 - **Phase II:** Two years and up **\$100,000 total**

Read the RFA very carefully. All necessary information is provided



Specific Areas of Interest/ Expected Outputs and Outcomes

- Four separate Funding Opportunity Numbers (FON)
- Address one Research Area
 - Air Quality (Q1)
 - Safe and Sustainable Water Resources (Q2)
 - Sustainable and Healthy Communities (Q3)
 - Chemical Safety (Q4)
- May submit more than one application



Specific Areas of Interest/ Expected Outputs and Outcomes (2)

Air Quality FON: EPA-G2022-P3-Q1

- 1. Assess human and ecosystem exposures and effects associated with air pollutants on individual, community, regional, and global scales**
- 2. Develop and evaluate approaches to prevent and reduce air pollution, particularly sustainable, cost-effective, and innovative multipollutant and sector-based approaches**
- 3. Provide human exposure and environmental modeling, monitoring, metrics, and information needed to inform air quality decision making at the state, tribal and local level**



Specific Areas of Interest/ Expected Outputs and Outcomes (3)

Safe & Sustainable Water Resources - FON: EPA-G2022-P3-Q2

1. Research on assessing the distribution, composition, remediation and health impacts of known and emerging chemical and biological contaminants in drinking water
2. New methods and approaches for fast and efficient waterborne pathogen monitoring in recreational waters
3. Investigate impacts from exposure to harmful algal/cyanobacteria toxins, and develop innovative methods to monitor, characterize and predict blooms for early action
4. Projects addressing stormwater and wastewater infrastructure needs through innovative technologies, social science, and outreach approaches for small, rural tribal, and/or underserved communities
5. Projects that investigate novel processes and technologies (such as non-brine technologies) to support adoption of water reuse in small communities
6. Technologies to detect and reduce exposure to lead in drinking water systems, such as developing simple, inexpensive tests for use in homes to detect lead in tap water



Specific Areas of Interest/ Expected Outputs and Outcomes (4)

Sustainable & Healthy Communities - FON: EPA-G2022-P3-Q3

1. Development of building materials (e.g. water pipes, interior walls) that are less toxic or recycling methods for potentially toxic contaminants in existing materials
2. Innovative methods and technologies to characterize and to remove contaminants from environmental media (e.g., soil, water, air)
3. Life cycle analysis and solutions to reduce the volume of waste (e.g. food waste recycling and disposal technologies), toxicity of waste (e.g. electronic components that are less toxic and/or easier to reuse and recycle) and facilitate reuse, recycling and disposal of waste.
4. Research to support community revitalization following contaminated site remediation and restoration as well as to build community resilience to potential pollution resulting from natural disasters and extreme events
5. Research to characterize and remediate the impacts of pollution on vulnerable groups of children, underserved communities, and other susceptible populations



Specific Areas of Interest/ Expected Outputs and Outcomes (5)

Chemical Safety - FON: EPA-G2022-P3-Q4

1. **New Approach Methodologies (NAMs) to help reduce or replace animal testing, as well as tools to assess their feasibility. EPA defines NAMs as technologies and approaches (and combinations of both) including in vitro and in silico testing methods. They also include methodologies that can integrate and calculate data from various sources, and serve to reduce, refine or replace vertebrate animal testing.**
2. **Advance information technology and software tools to mine ever-expanding data sources for information on chemical exposures and toxicities to build the usable knowledge infrastructure**



Points to Remember

- Student teams of undergraduates and/or graduate students
- Consider addressing needs of small, rural, tribal and EJ communities
- Focus research consistent with EPA's Strategic Plan, Goal 3: Greater Certainty, Compliance and Effectiveness; Objective 3.3: Prioritize Robust Science.
- Encourage partnerships with industry, non-governmental organizations (NGOs) and other educational and research institutions



Environmental Justice Component

- Environmental justice (EJ) is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies
- “Underserved communities” means people/communities of color, low income, tribal and indigenous populations, and other vulnerable populations such as the elderly, children, and those who pre-existing medical conditions
- In addition to addressing specific areas of interest previously discussed, applicants should demonstrate how the project will address the disproportionate and adverse human health, environmental impacts that affect underserved communities



Eligibility Information

Public and private non-profit, degree-granting institutions of higher education located in the U.S.

Includes Community Colleges

Collaboration with colleges and universities outside the US is permitted, can be subawardee

No individual applications

No private companies

Foreign collaborators, data collection or use are OK.

- International budget needs to be justified, reviewed, and approved.



Application Materials

- To apply under this solicitation, use the application package available at **Grants.gov**
- For further submission information see: **Section IV.F. “Submission Instruction and other Submission Requirements”**
- All necessary forms are included in the electronic application package, except for the current and pending support form, are available at:
<https://www.epa.gov/research-grants/research-funding-opportunities-how-apply-and-required-forms>

Make sure to include the current and pending support form in your Grants.gov submission


**Please refer to the following RFA sections
for additional information**

IV. Application and Submission Information

- Required application materials including
 - Human Subject Research Statement (HSRS)
 - Scientific Data Management Plan (SDMP)
 - Quality Assurance

V. Application Review Information

- Peer Review Criteria
- Relevancy Review Criteria

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- If interested in joining the **Peer Review Panel**, rather than applying, please contact Aaron Wishnuff (wishnuff.aaron@epa.gov); phone: 202-564-2055

Thank you!