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Safer Offshore Energy Systems 5

Evolution of Safety Management Systems

Funding Opportunity Summary

The National Academies of Sciences, Engineering, and Medicine's Gulf Research Program (GRP) seeks to reduce systemic risk in offshore energy industries in the Gulf of Mexico through supporting impactful and applied research. This funding opportunity will support projects that address future needs of Safety Management Systems (SMS) in an evolving offshore energy safety environment.

Projects should inform and improve the application and adoption of SMS and safety culture for the reduction of risks in offshore energy exploration, production and transportation in the Gulf of Mexico. The GRP is particularly interested in study designs that enable outcomes that can be utilized by Gulf offshore energy stakeholders (*e.g.* intervention study that tests the efficacy of a modification and its impact on safety outcomes; modelling studies with resulting recommendations, etc.) as they relate to evolution of safety management systems and enhancing safety culture across offshore energy industries. Projects should partner with offshore energy stakeholders (*e.g.* offshore energy industry, offshore energy workers, offshore energy non-profit organizations, *etc.*). Partnership with and integration of a research project with the needs of offshore energy stakeholders is key to ensuring research results are relevant, useful, and useable to stakeholders.

For the purposes of this RFA, projects should address the following topics:

1. Evolution of Safety Management Systems: The development, implementation, and evaluation of SMS in offshore energy continues to evolve with new information from accidents, near-misses, emergency responses, and simulated incident exercises. An SMS needs to be proactive, risk-based, and goal oriented to effectively maintain a safe offshore energy workplace.¹ Proposed work should address:
 - a. how the offshore energy operating environment has changed and will continue to evolve,
 - b. how our knowledge and understanding of a healthy SMS has evolved,
 - c. with the evolution of SMS's, what are the barriers to their full implementation, and
 - d. what further evolution of SMS's (among other related topics) could potentially reduce systemic risk in offshore energy operations and encourage full implementation.
2. Enhancing Safety Culture across Offshore Energy Industries: The Bureau of Safety and Environmental Enforcement (BSEE) defines safety culture as "the core values and behaviors of all members of an organization that reflect a commitment to conducting business in a safe and environmentally responsible manner."² Safety culture influences the evolution and adoption of a healthy SMS. Proposed work should examine the reciprocal relationship between safety culture and SMS's and how to effectively enhance safety culture, among other related topics.

¹Transportation Research Board. 2012. TRB Special Report 309: Evaluating the Effectiveness of Offshore Safety and Environmental Management Systems. Washington, DC: The National Academies Press. <https://doi.org/10.17226/13434>.

² BSEE Press Release. 2013. BSEE announces safety culture policy statement. <https://www.bsee.gov/newsroom/latest-news/statements-and-releases/press-releases/bsee-announces-final-safety-culture>

The GRP is especially interested in projects that collaborate with underrepresented stakeholders (*i.e.* demographics, job title, *etc.*) of the offshore energy industry and by incorporating the perspectives of stakeholders not typically captured in safety research.

A total of \$5M is available for this funding opportunity, with the number of proposals funded dependent on the quality and quantity of applications. Applicants should request funding commensurate with the scope of work, with an appropriate duration, nominally 24 months, but not to exceed 36 months.

Project Guidelines

To be considered responsive to this RFA, projects must involve the following:

Required:

- The proposed project should partner with offshore energy stakeholders (*e.g.* offshore energy industry, offshore energy workers, offshore energy non-profit organizations, *etc.*) to address the focus areas described above.
- For the purposes of this RFA, a partnership ought to be with an entity that either conducts business related to a Gulf offshore energy industry or relates closely to the energy industry (end user), and may also include other university, governmental, non-governmental, community-based, and private collaborators. Federal agencies and offshore energy producers may be included as non-funded collaborators, but cannot be included as funded parties.
 - The research associated with this RFA may require researchers to acquire access to offshore facilities or to include or work closely with advisors or team members from the energy industry, such as offshore development owners, contractors, operators, trainers, and/or regulatory agencies
- The project team should demonstrate a clear understanding of the operational landscape unique to offshore energy operations (*e.g.* have previously done work in offshore energy research, are aware of terminology and major issues facing offshore energy safety)
 - Projects should articulate how the research and intended outcomes would respond to a real-world problem or end user's need.
 - Projects should include a plan for stakeholder outreach and dissemination of research results.
- Grantees and stakeholders will ideally be collaborators and colleagues working in partnership towards the reduction of risk in offshore energy exploration and production in the Gulf of Mexico:
 - To facilitate further networking and knowledge exchange, Project Directors should participate in an annual SOES research workshop hosted by the GRP's Gulf Offshore Energy Safety Board.
 - To facilitate best practices in open, repeatable science, Project Directors will abide by the GRP [data management policy](#) which includes sharing data, software, code, and other information with the national and international scientific community, including other SOES funded projects, SOES partners, and GRP stakeholders.
- Proposals must include an explicit data management component that, at minimum, meets requirements of the GRP's [data management policy](#). In addition to GRP's standard data management requirements and reporting, proposals must show how data will be shared broadly and in a timely manner with the scientific community, federal agencies, and the interested public. Wherever possible, rapid sharing of provisional, interim data is encouraged.
 - Applicants must include a plan for data dissemination.

Award Information and Key Dates

Award Duration: Funding will be awarded to support projects up to 36 months in length

Total Amount Available: up to \$5 million

Estimated Number of Awards: Number of funded projects will depend on the quality and quantity of applications. There are no minimum budget requests per application. The budget request of any application should not exceed the total amount available and should be commensurate with the scope of the work proposed. Resources made available under this funding opportunity will depend on the quality of applications received and the budgets proposed by successful Applicants. The Gulf Research Program (GRP) may select for negotiation all, some, one, or none of the applications received in response to this solicitation. The right for negotiation will continue throughout the performance of project.

Timeline:

November 4, 2022: Online Full Proposal submission opens

February 1, 2023: Online Full Proposal due by 5:00 pm Eastern Time

Award Selection and Notification: May 2023

Anticipated Funding Start Date: Summer 2023

Submission site: <https://gulfresearchprogram.smapply.io/>

Eligibility

These terms are defined as follows when referenced:

- Applicant: The organization under which an application is being submitted (*i.e.*, applying organization).
- Project Director: The individual who will lead the proposed project. The Project Director is responsible for the direction and intellectual design of the project and has primary responsibility for project execution and the submission of all required deliverables to the GRP. Project Directors usually initiate applications that are officially submitted by their employing organizations (the Applicant). When initiating an application, the Project Director is responsible for ensuring it meets all the requirements outlined by the GRP as well as any requirements set by the applying organization.
- Key Personnel: Individuals who share in the responsibility of the direction or intellectual design of the proposed project and/or contribute to the execution of the proposed project in a substantive, measurable way.
- End user: For the purpose of this RFA, an end user is an entity (e.g. company, organization, etc.) that works or has stakes in offshore energy –and may benefit from the outcomes of the research.

Applications must adhere to the following to be eligible:

- U.S. organizations (excluding federal agencies) that have a valid federal tax ID number are eligible to apply.
- This funding opportunity is for distinct activities only. Proposed activities that are part of a broader, existing effort, program, or project may only be eligible if the application clearly demonstrates that the funding request is for distinct activities that would not otherwise occur.
- Activities currently under consideration for funding from other sources are not eligible. The status of “currently under consideration for funding from other sources” means that full or final application materials have been submitted to another entity to request funding. Submission of a Letter of Intent or Pre-Proposal to another funding source does not constitute an activity being “currently under consideration for funding from other sources” if that submission is a step that precedes submission of full or final application materials in an application process.
- U.S. organizations may partner with international organizations; a U.S. organization must be the Applicant, but Applicants may include Key Personnel from and sub-awards to non-U.S. organizations. Legal restrictions may prohibit transactions, including sub-awards, between U.S. entities and entities within certain foreign countries.
- U.S. federal agencies are not eligible to receive GRP funding as Applicants or sub-awardees, although their employees may be non-funded collaborators. Any proposed collaboration with employees of a U.S. federal agency should not involve any transfer of GRP funding to the agency and must be in compliance with all applicable federal statutes and regulations. This will be reviewed on a case-by-case basis to determine if this requirement is met.
- Federally Funded Research and Development Centers (FFRDCs) and University Affiliated Research Centers (UARCs) can be named as sub-awardees, however, these Centers must have the authority to obtain funding for work outside of the relevant federal sponsor contact and not be proposing to do work that is otherwise being done under the federal sponsor contract.

- BP Exploration and Production, Inc. (BP), Transocean Deepwater, Inc. (Transocean), their affiliates, and employees are not eligible to receive grant funding or to participate in any grant.
- Activities involving advocacy or lobbying are not eligible.

Individuals named as Project Director or Key Personnel in an application must adhere to the following:

- An individual may be named as Project Director in only one application.
- An individual, including a Project Director, may be named as Key Personnel in any number of other applications.
- If an individual appears on multiple proposals, a clear description should be included to explain how the proposed work is complementary and not duplicative of other proposed efforts and how the participant will budget his or her time.
- Should an individual appear on two or more proposals as Project Director, ALL proposals listing that individual as Project Director will be disqualified and eliminated from the review process. It is the responsibility of the Project Directors to confirm that each member of the entire team is within the eligibility guidelines.

Diversity, Equity, and Inclusion Policy

The GRP values and champions diversity, equity, inclusion, and justice, and any issues that negatively impact these values are taken very seriously. We are committed to promoting diversity, equity and inclusion in our work, and exercising these principles in our staffing, granting, board appointments, and fellowships. No person on grounds of race, color, age, sex, national origin, religion, marital status, pregnancy, parenthood, or disability shall be excluded from participation in, denied the benefits of, or be subjected to discrimination under this program.

About the Gulf Research Program

[The GRP](#) is an independent, science-based program founded in 2013, as part of agreements under plea orders with companies involved in the 2010 *Deepwater Horizon* disaster. The GRP seeks to enhance offshore energy safety and protect human health and the environment by catalyzing advances in science, practice, and capacity to generate long-term benefits for the Gulf of Mexico region and the nation. The GRP is a division of [the National Academies of Sciences, Engineering, and Medicine](#)—a private, nonprofit organization that provide expert advice on some of the most pressing challenges facing the nation and world on issues of science, engineering, and medicine.

Proposal Application Materials and Procedures

Applications for this funding opportunity must submit a Full Proposal by the deadline. Project Directors are advised to review the application preparation and submission instructions carefully and submit any questions to gulfgrants@nas.edu in advance of the submission deadlines. Although the GRP strives to respond to applicants' questions within two business days, the response time depends on the volume of questions received and the complexity of the question asked. The GRP does not guarantee that applicants' questions will be answered before submission deadlines. Applicants are advised to submit Full Proposals well in advance of the submission deadlines as a precaution against unanticipated delays. The GRP expects applicants to review the Grant Agreement (see "Grant Terms and Conditions") prior to submitting an Application to ensure that the Applicant is aware of the applicable terms under which the award is offered. It is the policy of the National Academies to entertain potential modifications to the Grant Agreement only under the most exceptional circumstances. Successful applicants are strongly encouraged to sign the Grant Agreement as presented.

Full Proposal

Full Proposals must be submitted via the [online application system](#) by February 1, 2023 at 5:00 p.m. E.T. Proposals submitted by other means (including mail, fax, or e-mail) will not be considered. Full Proposal application materials submitted in any language other than English will not be considered. Conformance of proposals to instructions provided is required and will be strictly enforced. The GRP may reject, without review, any applications with required attachments that are missing requested information or that are not consistent with the instructions outlined. The GRP may reject inclusion of any optional attachments in the review process if the attachments are not consistent with the instructions outlined. The Full Proposal must include the following elements:

- Project Personnel:
 1. Project Director
 2. ORCID (Open Research and Contributor ID)
 3. Key Personnel
 4. Involvement of Project Director or Key Personnel in other applications
- Project Details:
 1. Project Title (maximum 15 words). The title should clearly represent the project and help articulate the importance and goals of the project to a non-technical reader. Titles are a primary referent for projects. The titles of awarded projects will be announced publicly and should not sacrifice clarity for novelty.
 2. Project Acronym (if available).
 3. Project Key Words (maximum 5 words).
 4. Project Summary (maximum 300 words). The project summary should be an overview of the proposed project written in the third person, informative to other persons working in the same or related fields, and, insofar as possible, understandable to a scientifically or technically literate lay reader. The project abstract should clearly and succinctly address:
 - What the project aims to achieve (i.e., the problem, proposed outcomes);
 - The general approach to address the problem; and
 - How the project results and/or outputs can be used by a stakeholder group involved in offshore energy in the Gulf of Mexico.
- Project Description (maximum 7,500 words). Provide a clear statement of the work to be undertaken and a plan for implementation. It should address the following:
 - The Problem: The context for the research question, issue, and/or gap to be addressed and the current state of knowledge on the issue.
 - Goal and Objectives: The overall goal of the project and its SMART (Specific, Measurable, Achievable, Relevant, Time-oriented) objectives.
 - Project approach, methodology, and implementation: Details about the proposed activities to be undertaken and methods, tools, and analyses that will be employed to carry out the project, along with an explanation of how these are appropriate for accomplishing the specific aims of the project.
 - A clear description/plan for implementation that demonstrates the feasibility of the activities to be undertaken, including explanations of the feasibility of access to specific data sets, people, or settings required to successfully implement the project and the mechanism to assess success.
 - A clear description/plan for transition of developed tools or products to the end user organization(s) for deployment and long-term sustained use.

- A description of each Key Personnel role.
 - 1. Application and Outputs Utilization (maximum 1,000 words). Describe how the research addresses offshore energy stakeholder needs and how end users will use the outputs of the project.
 - 2. Engagement, Communication, and Outreach Strategy (maximum 500 words). Strong interaction and engagement with end users and other stakeholders and audiences is expected of all proposals. Dissemination of results and their utility to stakeholders must be clearly defined.
 - 3. Timeline. A timeline, preferably as a Gantt chart, showing key project activities or events, including tasks, milestones, outputs, or deliverables is required. The timeline will be used by reviewers to assess project feasibility. For funded projects, the timeline allows Project Directors to track progress and allows GRP staff to track the project schedule. Project activities or events listed in the timeline should serve as unambiguous indicators and measures of progress. The timeline should include sufficient key activities or events so that the portrayed, overall progress of the project can be reasonably tracked over distinct time periods. The timeline Gantt charts should be uploaded as a PDF as a separate document.
 - 4. Facilities, Equipment, and Other Resources (maximum 500 words). This section of the proposal will be used to assess the adequacy of the resources available to perform the proposed project. Include an aggregated description of the internal and external resources (both physical and personnel) that all the partners of the partnership will provide to the project, should it be funded. The description should be narrative in nature and must not include any quantifiable financial information. Although these resources are not considered cost sharing, the GRP expects that the resources identified in the Facilities, Equipment, and Other Resources section will be provided, or made available, should the proposal be funded.
 - 5. Data Management Plan (maximum 1,500 words). Applications should include an explicit data management component that meets the requirements of the [GRP's data management policy](#). All observational and modeled data shall be made available with minimal delay to be negotiated with the GRP for each dataset, through submission at least to the Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC, [link](#)) and national archives for use by intermediate and end users.
 - 6. References Cited
 - 7. Research Involving Human Subjects (if applicable)
- Project Budget
 - Total budget requested
 - Budget justification (maximum 2,000 words).
 - Sub-award to FFRDCs or UARCs (if applicable). The FFRDC(s) and/or UARC(s) named as sub-awardees in the Full Proposal must have the authority to obtain funding for work outside of the relevant federal sponsor contract and not be proposing to do work it is otherwise being done under the federal sponsor contact.

Resumes: A resume is required for the Project Director and every individual identified as Key Personnel. Resumes may not exceed two pages per person. All resumes should be combined and uploaded as a single PDF document. Resumes for Individuals not named as a Project Director or Key Personnel in the "Project Personnel" section should not be included. It is the responsibility

of the Project Director to ensure that the Key Personnel listed in the “Project Personnel” section are correct and match the resumes submitted.

- IV. Letters of commitment: Applicants may upload a PDF with letters of commitment from collaborators or organizations/individuals anticipated *to inform or participate in the project in a substantial way*. Each letter of commitment should be brief and no longer than one page. Letters of commitment must not include itemized budgets or other information that is required in other sections of the application. All letters of support should be combined into a single PDF before uploading as an attachment.

Full Proposal Peer Review Process

All complete applications will be provided to external reviewers who will constitute a review panel for evaluation that is based on the Merit Review Criteria. The review panel will discuss the merit of each application and score the applications. The GRP will make reasonable efforts to develop a review panel in which external reviewers are not affiliated with institutions that submitted applications. Any external reviewer with any conflict(s) of interest will be recused from reviewing or participating in any discussion of any application(s) with which they have a conflict of interest. Program staff will examine the applications and prepare a grant-funding plan taking into consideration the review panel’s ranking of the applications, summaries from the panel discussion, and the program’s funding availability, current portfolio, objectives, and goals. GRP staff and internal/external reviewers are recused from individual applications involving a conflict of interest, such as affiliation with a submitting institution. The final decision for funding will be made by the National Academies.

All review processes will be governed by the GRP’s Conflict of Interest and Confidentiality Policies.

Full Proposal Merit Review Criteria

Applications will be evaluated using three broad review criteria. Reviewers may raise additional issues that are not covered by the bullets under each criterion.

Relevance (50%):

- To what extent does the project appropriately and clearly address the RFA focus areas?
- How effectively might the proposed project contribute to the reduction of risks in offshore energy exploration and production in the regions of the Gulf where such activities occur and/or are anticipated?
- To what extent does the project lead to explicit applications and end user engagement?
- To what extent does the proposed project clearly address Gulf offshore energy stakeholder needs?
- Is there a proposed partnership? If so, does the proposed partnership include an offshore energy stakeholder?

Technical and Scientific Merit (30%):

- To what extent does the proposed project demonstrate a scientifically and/or technically valid and appropriate approach, strategy, methodology, and analyses to accomplish the specific goals and objectives of the project?

- To what extent is the implementation plan of proposed activities well-reasoned, well-organized, and based on a sound rationale?
- To what extent does the implementation plan incorporate a well-designed mechanism to assess success?
- To what extent is the budget commensurate with the proposed work?
- To what extent does the proposal include a data management plan that is appropriate for the scope of work?
- To what extent is the timeline of the proposed work reasonable and feasible?

Project Personnel and Organizational Support (15%):

- How well qualified are the Project Director and Key Personnel to conduct the proposed activities?
- To what extent are the disciplines and perspectives represented by the personnel and institutions appropriate for the scope of the project?
- To what extent does the application demonstrate that the project personnel would have adequate resources (for example, institutional support, equipment, and/or other physical resources) to conduct the proposed project?

Leveraging and Coordination (5%):

- As applicable, to what extent does the project propose to leverage available public or private resources (e.g., industry partner near miss data, incident data)?
- As applicable, to what extent does the proposal include coordination or collaboration with Gulf-focused activities?

Appendix

Data Management Policy

The GRP's Data Management Policy applies to this RFA. To facilitate sharing of data and information products, all applications submitted to the GRP must include a data management plan and follow FAIR guiding principles (FAIR stands for "Findable, Accessible, Interoperable, Reusable." To learn more about FAIR guiding principles refer to the National Academies report "Open Science by Design: Realizing a Vision for 21st Century Research"). Information products may include documents (i.e., reports, workshop summaries, etc.), multi-media curricula for education and training (i.e., video and/or online tutorials, manuals and handbooks, etc.), and other media and communication platforms. Even in the unlikely case in which no data or any other information products will be produced, a plan must be submitted that states "No data or information products are expected to be produced from this project." The GRP's Data Management Policy and Data Management web page provides information on what must be included in the data management plan submitted as part of an application.

Research Involving Human Subjects

All projects involving human subjects must be submitted to an institutional review board (IRB) for review and either receive IRB approval or be granted exemption from human subjects' regulations before an award can be made. Proposers should file their application with their local IRB at the same time the application is submitted to the GRP so that any approval procedure determined as necessary will not delay the award process. An application may be submitted to the GRP prior to receiving IRB approval or being granted exemption; however, if the application is selected for funding, the award will be made conditional upon IRB granting approval or exemption from human subjects' regulations within 60 days of the notice of conditional award. If a proposed project involving human subjects is granted exemption from human subjects' regulations [see 45 CFR 46.101(b)], the Applicant must provide documentation that an IRB (or the appropriate authority other than the Project Director or Key Personnel) has declared the project exempt from the human subjects regulations. Documentation should include the specific category justifying the exemption. Organizations without internal access to an IRB must seek approval or exemption from an independent review board or other appropriate authority.

Making the Grant Award

Selection Notice:

Following completion of evaluation of all applications received, the Project Director identified on an application will be notified via email that (1) the application has been selected for funding pending contract negotiations, or (2) the application has not been selected. For selected applications, the GRP reserves the right to request additional or clarifying information for any reason deemed necessary, including, but not limited to, indirect cost information or other budget information. Awardees are free to accept or reject the grant agreement as offered.

Award Notice:

The GRP transmits award notices to organizations via e-mail. The award is not finalized, and the National Academies is not obligated to provide any funding until a signed copy of the award agreement has been received by the Academies.

Grant Periods:

Upon receipt of the award notice, the awardee should note the effective date and the expiration date. Effective date is the date specified in the grant notice on or after which expenditures may be charged to the grant. Charging expenditures to the grant prior to the effective date is strictly prohibited. Expiration date is the date specified in the award notice after which expenditures may not be charged against the award except to satisfy obligations to pay allowable project costs committed on or before that date.

Once an award is made, the effective date cannot be changed. The expiration date may be changed via approval of a request for a no-cost extension. If approved, the GRP will issue an amendment to the award.

If additional time beyond the performance period and the established expiration date is required to assure adequate completion of the original scope of work within the funds already made available, the awardee may apply for a one-time no-cost extension of up to six months. A formal request must be submitted to the GRP at least 45 days prior to the expiration date of the award. The request must explain the need for the extension and include an estimate of the unobligated funds remaining and a plan for their use. This one-time extension will not be approved solely for the purpose of using the unliquidated balances. For more information please visit [grantee FAQs](#).

Post-award Management

Reporting Requirements:

After an award is conferred, the awardee will provide a semi-annual financial report to the GRP to report on expenditures to date under the award. The awardee shall provide an annual written report to the GRP to report on activities being carried out under the award, including but not limited to project accomplishments to date and expenditures. No later than sixty (60) days after the expiration of the award, the awardee shall provide in writing a final report that addresses the original objectives of the project as identified in the application, describe any changes in

objectives that were approved by the GRP, describe the final project accomplishments, and include a final project accounting of all award funds.

Collaboration:

Applicants are encouraged to engage with the GRP to meet their project goals and those of the overall SOES program. This could include updating GRP Program Officer about major milestones or obstacles, reaching out to other SOES grantees for support and with questions, and participation in an annual networking and research meeting with all SOES project teams.

Data Management:

Implementation of the data management plan must follow FAIR guiding principles and will be tracked through the annual and final report process. Annual project reports required for all multi-year awards must include an account of ongoing data management and the accessibility (e.g., sharing) of research information products (e.g., digital object identifiers [DOIs] or accession numbers for digital information; citations of relevant publications, conference proceedings, and conference presentations; and other types of dissemination). In addition, the report must articulate any current or foreseeable changes to the original plan. Continued funding for subsequent years of multi-year projects will be contingent upon acceptable performance, which includes adherence to the data management plan. All observational and modeled data shall be made available with minimal time delay to be negotiated with the GRP for each dataset, through submission at least to the GRIIDC ([link](#)) and national archives for use by intermediate and end users.

Final project reports, which are required for all awards, must describe the implementation of the data management plan. They must clearly describe any changes from the original plan. At a minimum, the final report should include descriptions of the following:

- Data, datasets, and information products produced during the award period.
- Metadata (that describe the project and that describe the data and other information products) produced during the award period.
- Data, other information products, and associated metadata that will be maintained or curated after the award expires.
- Dissemination activities (e.g., publication of results and data, presentation of results and data).
- The curation facility or facilities (e.g., digital repository) where project data and other information products have been deposited or are being curated for long-term management and accessibility.
- Verification that the data and other information products are, or at least will be, widely discoverable and accessible (e.g., DOIs for data and other information products).
- In addition to evaluating the final report descriptions, the GRP may review any digital products curated in digital repositories or otherwise curated to ensure that they are properly preserved, documented, and accessible.

Scientific Integrity:

A fundamental purpose of the GRP is to facilitate the advancement of knowledge and the application of the science to address challenges relevant to the Program's mission. All activities of the GRP will be conducted to meet the highest standards of scientific integrity. All grantees

have a responsibility to use the funds as specified in the application to advance the project goals and objectives. To continue the emphasis on scientific integrity throughout the award period, the GRP will ask all researchers, trainees, and fellows to comply with professional standards as defined by the National Academies report “[*On Being A Scientist: A Guide to Responsible Conduct in Research.*](#)”

Grant Terms and Conditions:

The GRP expects Applicants to review the [Grant Resources page](#) prior to submitting an application to ensure that the Applicant is aware of the applicable terms under which the grant is offered. It is the policy of National Academies of Sciences, Engineering, and Medicine to entertain potential modifications to the Grant Agreement only under the most exceptional circumstances. Rather, successful Applicants are strongly encouraged to sign the Grant Agreement as presented.