

U.S. Geological Survey

**Notice of Funding Opportunity**

The Educational Component of the National Cooperative Geologic Mapping Program, EDMAP

Funding Opportunity Number: G26AS00012

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## **BASIC INFORMATION**

**Announcement Type:** Initial

**Funding Opportunity Number:** G26AS00012

**Assistance Listing Number(s):** 15.810

**Estimated Total Program Funding:** \$1,500,000

**Expected Number of Awards:** 15

**Award Ceiling:** \$180,000

**Award Floor:** \$0

Funds for each award will be determined on the basis of an anonymous Panel process. Each proposal will be scored on the basis of Evaluation Criteria provided within. Only the higher scoring proposals will be funded.

**Cost Sharing Required?** Yes

### **Closing Date Explanation**

Electronically submitted applications must be submitted no later than 5:00 PM, ET, on the listed application due date.

**OMB Control Number: 1028-0088; Expiration Date 04/28/2027**

Have Questions?

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## Executive Summary

The primary objective of the EDMAP component of the National Cooperative Geologic Mapping Program (NCGMP) is to train the next generation of geologic mappers. To do this, the NCGMP provides funds for graduate student and upper-level undergraduate student projects relevant to the creation of geologic maps (defined broadly as maps that characterize the solid Earth and/or its constituents). Through these cooperative agreements, the NCGMP hopes to expand the research and educational capacity of national academic programs that teach Earth science students the broad range of techniques relevant to geologic mapping and the analysis of field, geophysical, borehole, and remote sensing data. As of **2024**, EDMAP has funded more than 1,501 students from more than 177 universities. A list of funded FY2025 EDMAP projects can be found in Attachment D of this announcement. For more information about the USGS NCGMP EDMAP Program please visit: [EDMAP | U.S. Geological Survey \(usgs.gov\)](https://www.usgs.gov/programs/edmap) or email [EDMAP@usgs.gov](mailto:EDMAP@usgs.gov).

## ELIGIBILITY

### Eligible Applicants –

Public and State controlled institutions of higher education

### Additional Information on Eligibility

- Proposals may be submitted by a faculty member (including adjunct faculty) affiliated with geoscience or related departments or programs at an accredited university or college in the United States. However, faculty or adjunct faculty members who are also employed by the Federal government may neither submit a proposal nor serve as PI or co-PI on an EDMAP project.
- Only one proposal will be accepted from an individual Principal Investigator (PI; faculty advisor). Multiple proposals can be accepted from a single institution if authored by different PIs. PIs may submit proposals containing multiple sub-projects (i.e., proposal can support multiple Primary Student Mappers) so long as a different geologic map deliverable is proposed for each project/Primary Student Mapper. The PI is required to write and submit the proposal.
- PIs that have been previously funded under EDMAP must comply with the requirements specified in the previous EDMAP award(s) and must be in good standing (i.e., no delinquent deliverables still pending on a previous award without a Program-approved extension). Additionally, a PI may only have two active EDMAP Projects at any given time. As an example to help clarify this – in order to be eligible for EDMAP funding in FY2026, a PI must have no more than one currently active EDMAP project at the time that FY2026 EDMAP funding decisions are made.

- EDMAP Primary Student Mappers should be graduate (Master’s and Doctoral) students and/or upper level (junior and senior) undergraduate students. Graduate and undergraduate students must have received appropriate geoscience or related training prior to the time that they begin the proposed project.
- A Primary Student Mapper may be supported by no more than a total of 36 months of EDMAP funding or no more than three EDMAP awards during their academic career. Students may be funded on consecutive EDMAP awards, or a student may be supported by an EDMAP award from different institutions, degrees, or PIs. However, a given student is only eligible for 36 months of cumulative funding.
- An EDMAP request may not exceed \$45,000 per 12 months for each Graduate Primary Student Mapper (\$3,750 per month). An EDMAP request may not exceed \$25,000 per 12 months for each Undergraduate Primary Student Mapper (\$2,083 per month). An EDMAP award may not exceed 24 months (\$90,000 maximum per Graduate Primary Student Mapper; \$50,000 per Undergraduate Primary Student Mapper). These maximum requests include ALL associated costs: tuition, field work, laboratory analyses, stipend, etc.

## Cost Sharing Requirement

### Cost Sharing Required?

Yes

The EDMAP Program is required by statute (Public Law 117-58, Sec. 40202: “National Cooperative Geologic Mapping Program”) to be carried out on a 1:1 matching basis. Each recipient must match each Federal dollar with a non-Federal dollar (direct and indirect costs). Applicants will be held to the proposed match provided in their application. A modification will not be issued to reduce the match amount. Proposing an overmatch is allowed; however, an increased match does not increase the chances of receiving an award. Federal regulations prohibit the matching of Federal funds with other Federal funds.

**The source(s) of the university/proposing institution contribution (i.e., match) must be listed in the proposal.**

The following is a summary of what is required for the 1:1 match:

- (i) A 1:1 Federal/Proposing Institution match is required for “TOTAL DIRECT COSTS” (salaries, fringe benefits, field expenses, miscellaneous supplies, tuition costs if requested);

\*\*Note that tuition costs can be counted as “total direct costs” to meet match requirements but cannot be included in indirect cost calculations.

- (ii) A 1:1 Federal/Proposing Institution match is required for “TOTALS” (Total Direct Costs + Indirect Costs).

Both “Totals” must meet the 1:1 match requirement. Failure to meet the matching requirement will result in automatic ineligibility and the proposal will not be evaluated.

Up to 18% of a Proposing Institution’s total direct costs may be used as a Proposing Institution match on the Proposing Institution indirect cost line. If a Proposing Institution chooses (or is required) to show a higher than 18% rate on the Proposing Institution’s indirect cost line, then this rate can be listed under “uncollected indirect costs” on the University/proposing Institution side, and the result will be a higher Proposing Institution budget total than the Federal budget total - **however, any “*uncollected indirect costs*” cannot be claimed as additional University match.** If the Proposing Institution approved rate is less than 18%, then the approved rate must be used. These stipulations also apply to subawards; if a subaward is issued for a portion of a project, then the same rules apply to the 18% cap for indirect costs on the federal side. **In proposals with PIs from multiple institutions, partial match from each institution is allowed so long as the total reaches the 1:1 threshold.**

Matching funds may include:

- direct financial match in dollars to cover project expenses;
- faculty (PI or non-PI) salary for time spent mentoring students on the project, student salary and/or Primary Student Mapper tuition, (although Primary Student Mapper(s) tuition may not exceed 50% of total proposed match for the entire proposal);
- Research Assistantships (RA) are an allowable request or match but only for students working exclusively on the proposed project. RAs supported by other Federal funds are not eligible to be used as matching funds;
- volunteer services by professional and technical personnel, consultants, or other skilled or unskilled labor (except for services or volunteer time from Federal employees), if the services are an integral and necessary part of the project (Information documenting rates and amounts for in-kind support should be included, for example, letters of commitment for in-kind support);
- purchased, rented, and/or donated property such as field supplies, laboratory supplies, or office supplies that are justified to support the project (the value of donated property must not exceed the fair market value of the property at the time of the donation);
- field travel and field accommodations, including per diem for meals and incidentals;
- sample preparation and sample analysis costs;
- analytical costs at a Federal facility;
- purchase or rental of capital equipment, such as GPS units, rock hammers, Brunton compasses, hand lenses, cameras, or other nonexpendable items, provided that the equipment is directly related and essential to the project, and that the cost is prorated for project use;
- Purchase of field tablets given that they abide by the definition of expendable property (less than \$5,000 with a shelf life not to exceed 24 months).

Matching funds **may not** include:

- Federal funds (e.g., Federal employee salary, National Science Foundation grants, services provided by a Federal laboratory or other Federal facility);
- volunteer time from a Federal employee;
- costs associated with travel to or registration for professional meetings;
- tuition for mapping/field assistants;
- teaching assistantship salaries;
- software licenses and maintenance contracts (although software cost is an allowable match if the proposed project is a Data Synthesis Project and the software purchase is justified and prorated);
- items or facilities (computers, computer facilities, plotters, rock lab, office space, etc.) that are already included as university/department/institution overhead expenses. These items should be covered by indirect costs.

## GET READY TO APPLY

### Required System Registrations

#### Unique Entity Identifier and SAM.gov Registration

Before applying, all **applicants** except individuals applying as a natural person **must be registered in SAM.gov**. During the SAM.gov registration the entity will obtain their Unique Entity Identifier (UEI).

**The SAM.gov registration process can take several months. If your organization is not already registered in SAM.gov, begin the registration process as soon as possible.**

**To register in SAM.gov**, go to the [SAM.gov website](#) and use the available resources to complete registration.

- **Financial assistance registrants** must review and certify compliance with the SAM.gov “Financial Assistance General Representations and Certifications”.
- **Already registered?** You already have a Unique Entity ID. Before applying, check that your “Financial Assistance General Representations and Certifications” on SAM.gov is complete. Remember to renew your registration every year to keep it active while you have an award or application in progress. You can update your registration whenever you need, including during renewal.
- **Need help?** For additional information and contact information on the [SAM.gov Help page](#).

#### GRANTS.GOV

This program accepts applications through Grants.gov so once you receive your UEI return to Grants.gov to register with Grants.gov. Please allow 30 days to register and set up a Workspace in Grants.gov. See Submission Instructions section below for additional details.

## PROGRAM OVERVIEW

## **Program Goals**

Detailed geologic maps are the basis of most Earth science investigations and can be used for energy and mineral resource assessments and discovery, natural hazard mitigation, infrastructure planning, and more. To establish a coordinated program that prioritizes the geologic mapping requirements of the Nation and to increase production of geologic maps, the 102<sup>nd</sup> Congress passed the National Geologic Mapping Act, referred to within as “the Act.” Signed into law in 1992, the Act created within the U.S. Geological Survey (USGS) the National Cooperative Geologic Mapping Program (NCGMP).

The objectives of the NCGMP, as outlined in the Act, are to:

1. Determine the Nation’s geologic framework through the systematic development of geologic maps.
2. Submit aforementioned maps to the National Geologic Map Database (NGMDB); and develop complementary national databases that provide value-added information to the NGMDB.
3. Apply cost-effective mapping techniques that assemble and disseminate geologic map information, and that render such information of greater application and benefit to the public.
4. Develop public awareness of the role and application of geologic map information to the resolution of national issues of land use management.

## **Program Description**

The EDMAP Program represents the Education Component of the NCGMP and is a partnership between the USGS and participating colleges and universities. The EDMAP Program provides mentorship and training for U.S. Earth science students while carrying out the NCGMP mission and addressing Administration and Department of the Interior Secretarial priorities. EDMAP cooperative agreements provide funds, matched 1:1 by the receiving institution, for training students in skills needed to produce geologic maps. Geologic mapping training supported by EDMAP provides the foundational capacity to describe and interpret the geologic framework information necessary to manage America's land and natural resources, and strengthen national security, foster economic development, and adapt to changes in the environment. In addition, EDMAP support helps to maintain strong academic geologic mapping programs, which in turn produce a healthier workforce at geological surveys throughout the Nation.

Many EDMAP projects include lands of American Indian Tribes, Alaska Native Tribes, and Alaska Native Corporations (hereafter referred to as Tribal Nations). The NCGMP supports the fulfillment of the federal trust responsibility to Tribal Nations by recognizing their sovereignty and responding to the science needs expressed by Tribal communities. The NCGMP works closely with EDMAP PIs to ensure that Tribal Nations are appropriately notified of NCGMP-supported geologic mapping activities inclusive of Tribal Nation land.

## Legislative Authority

Public Law 102-285

## Type of Award

Projects will be funded through CA (Cooperative Agreement).

Recipient should expect the Federal agency to have substantial involvement in the project. The NCGMP will monitor progress towards fulfilling deliverables at the end of the period of performance. The NCGMP will also review and approve any award modifications, has the authority to direct or redirect recipient work at any stage in the process, and may immediately halt work due to failure to meet agreement objectives. The NCGMP will review and approve all submitted deliverables to ensure compliance with Cooperative Agreement terms and conditions.

## PREPARE YOUR APPLICATION

### Application Content and Format

#### Pre-Application Requirements and Information

##### General Proposal Requirements

- EDMAP project proposals may be submitted for any length of time between 12 and 24 months duration.
- There is no limit on proposed number of Primary Student Mappers so long as Federal request can be matched 1:1 by the Institution.
- Each Primary Student Mapper must be the first author of their own geologic map.
- Funds for one Primary Student Mapper include ALL potential costs/match for the project: field expenses and supplies, salary, sample analyses, tuition.
- The maximum amount that can be requested for one Graduate Primary Student Mapper (and any field assistants associated with the deliverable) is \$3,750 per month for no more than 24 months (\$90,000 maximum over 24 months; \$45,000 maximum over 12 months).
- The maximum amount that can be requested for one Undergraduate Primary Student Mapper (and any field assistants associated with the deliverable) is \$2,083 per month for no more than 24 months (\$50,000 maximum over 24 months; \$25,000 maximum over 12 months).
- The bulk of the award is intended to support the student's proposed efforts (field work and/or synthesis work, mentored geologic mapping training, tuition, salary/research assistantship). No faculty salary is allowed, although the PI may ask for minor logistical financial support (e.g., travel funds) to mentor the student(s) in the field for a credible amount of time.
- EDMAP agreements can support primary student mapper tuition and research assistantships. Up to 50% of the total proposed request may be used for primary student mapper tuition. Additionally, primary student mapper tuition may comprise no more than 50% of the proposed match.

- Any support investigations (e.g., drilling and analytical services), chartered transportation, and other purchased assets should sum to less than 20 percent of the overall project budget.
- Collaborative Proposals: Proposals may involve collaborations between more than one institution. A PI must be named for each institution, and all PIs and co-PIs (all of whom are considered “PIs” within this program announcement) share equally in the responsibility for the completion of the project. One PI must be designated on the proposal as the point of contact for NCGMP communication, preferably the academic advisor of the funded student. Funding will be received by the designated PI’s institution only and can be dispersed to other institutions via inter-institutional agreements. The NCGMP will not engage in inter-institutional agreements, nor participate in enacting their provisions.
- PIs must plan mapping projects in coordination with other FEDMAP or STATEMAP mapping projects in the field area, because the NCGMP will not fund two maps of the same area of equitable scale or of similar purpose.
- The Geologic Map Schema (GeMS) Standard is used for all NCGMP-funded digital map products produced by the USGS and State Geological Surveys. **Proposals including training in and the production of a GeMS database will be prioritized over proposals that do not include training in and submission of a GeMS database.** Resources and guidance on GeMS can be found at <https://ngmdb.usgs.gov/Info/standards/GeMS/>.
- All EDMAP proposals must include a mentored field experience focusing on aspects of geologic mapping.
- All proposals must inform and coordinate with the State Geological Survey in the state of the proposed study site. If a proposed study site does not have a State Geological Survey, then please inform and coordinate with a USGS Project Lead that is funded by the National Cooperative Geologic Mapping Program (to obtain contact information for State Geological Surveys, see Attachment C or visit: <http://www.stategeologists.org/>).
- A written letter of acknowledgement or support from the State Geologist (or designee) of the proposed study site (or a USGS Project Lead if the study site does not have a State Geologist) must accompany all proposals (see Proposal Evaluation Criteria, p. 25). EDMAP recipients are encouraged to discuss publication options with the State Geologist of the proposed study site.

Each Proposed EDMAP project must fall into one of two categories: Field-Focused or Data Synthesis.

#### Type of Project Proposals: Field-Focused

- Field-Focused Projects are those that **perform mapping and generate a geologic map at a detailed or intermediate scale (ranging from 1:24,000 up to but not including 1:250,000)**, displaying specific geological strata or rock units, on the basis of extensive mentored field mapping.
- The primary emphasis of Field-Focused Projects must be on student(s) doing geologic mapping in the field.

- The EDMAP definition of a 2D geologic map created by a Field-Focused Project is a robust material-properties-based framework of geological units and features that can be interpreted into various customized and user-friendly derivative map products.
  - At minimum, the geologic map should include: (1) a clear and legible base (include base map credit and map projection); (2) scale (fractional and bar) and contour interval; (3) north arrow and magnetic declination; (4) title, authorship, publisher (or the institution that carried out the mapping), and date; (5) index map delineating mapping contributions by the student author(s) and by previous mappers across the new map area; (6) field data or field data stations; (7) description of map units; (8) explanation of map symbols; and (9) unit symbols on map.
  - All maps submitted under EDMAP also must show the bounding coordinates in degrees-minutes-seconds (DMS) notation or decimal degrees notation.
  - If a submitted map does not include these minimum criteria, then it will be returned.

### Types of Project Proposals: Data Synthesis

- Data Synthesis Projects incorporate emerging geologic mapping skills and field experiences to support the evolving need for broadly defined geologic mapping now and in the future.
- A proposed project would be considered eligible for Data Synthesis Project funding so long as the **student both learns skills that enable the creation of maps or spatially referenced models that are relevant to Earth science, and ultimately produces a geologic map.**
- Project must generate a geologic map (defined broadly as any map that characterizes the solid Earth and/or its constituents) **at a detailed or intermediate scale (ranging from 1:24,000 up to but not including 1:250,000)** by using computational tools or other innovative technologies, such as machine learning, smartphone applications, modeling, remote sensing, drones, etc. (e.g., using machine learning to classify rock types on the basis of remote sensing data).
- Data Synthesis Projects could also involve the collection of new data, analysis of preexisting data, or resolution of anomalies in existing datasets so that data can be geospatially merged (e.g., mapping critical minerals or hazardous wastes in soils in an urban environment to address specific sources of contamination in runoff).
- The activities proposed under a Data Synthesis Project can take many forms; however, the goal of the project must be to train students in geologic mapping.
- The major focus of a Data Synthesis Project, and the way that the deliverables will document student learning related to geologic mapping, must be clearly described in the proposal.
- **In the case of a Data Synthesis Project, a geologic map is defined broadly as any map that characterizes the solid Earth and/or its constituents.**
  - At a minimum (if applicable), the geologic map should include: (1) a clear map projection; (2) scale (fractional and bar); (3) north arrow and magnetic declination; (4) title, authorship, publisher (or the institution that carried out the

mapping), and date; (5) field data or field data stations, if field data were collected; (6) description of relevant discrete or continuous map units; (7) explanation of map symbols; and (8) unit symbols on map.

- If a submitted map does not include these minimum criteria, then it will be returned.
- Data Synthesis Project field experiences may be different than a traditional weeks-long mapping effort in the field. For example, the mentored field experience could be a guided field trip along transects aimed at understanding regional geology across a province.

## Application Documents

Applicants must submit the following forms with their application as specified below. Instructions for accessing and submitting application forms are provided in the [Submission Instructions](#) section of this document below. For instructions on completing form fields, see the form instructions on the [Grants.gov Forms Repository](#).

Forms/Assurances/Certifications	Submission Requirement
SF-424, Application for Federal Assistance Note: For applicants requesting more than \$100,000 in Federal funds, the Authorized Representative’s signature (or electronic equivalent) on the Application for Federal Assistance form also represents their certification of the statements in <a href="#">Appendix A to 43 CFR 18-Certification Regarding Lobbying</a>	Required from all applicants
SF-424A, Budget Information – Non-Construction Programs	Required for non-construction projects
Project Abstract Summary (OMB 4040-0019). Must include, in plain language: <ul style="list-style-type: none"> <li>• Award purpose,</li> <li>• Activities to be performed,</li> <li>• Expected deliverables or outcomes,</li> <li>• Intended beneficiaries,</li> </ul> Subrecipient activities (if known or specified at time of award)	Required from all applicants
DOI Research and Development (R&D) – Current and Pending (Other) Support Note: This form is available on the <a href="#">DOI website</a> . Applicants must download the form and include the completed form as an application attachment.	Required for research projects.
DOI Research and Development (R&D) – Biographical Sketch Note: This form is available on the <a href="#">DOI website</a> . Applicants must download the form and include the completed form as an application attachment.	Required for research projects.

## Project Narrative

Proposals must be arranged according to the format and order provided below. Following this format ensures that every proposal contains all essential information and is evaluated equitably. All documents (except the SF-424 forms) must be combined and submitted as one PDF file.

All proposals must include the following documents:

1. Standard Form 424 (SF-424), Application for Federal Assistance (mandatory form provided in grants.gov): The person who electronically submits the SF-424 must have the authority to bind the University/Institution to the terms of the assistance award.
2. Standard Form 424A, Budget Information: Non-Construction Programs (mandatory form provided in grants.gov).
3. Standard Form 424B, Assurances: Non-Construction Programs (mandatory form provided in grants.gov).
4. Negotiated Rate Agreement: If requesting indirect costs, then a copy of the University's negotiated indirect cost rate agreement is required. Per the program authority for EDMAP, indirect costs are capped at 18%. Please note that in the absence of a negotiated indirect cost rate agreement, the maximum indirect rate that may be charged is the de minimis rate of 15% (see 2 CFR 200.414(f)).
5. Project Abstract Summary (OMB 4040-0019): Along with the requirements listed in the table above, please also provide the proposed project title and period of performance on this document.
6. DOI Research and Development (R&D) – Current and Pending (Other) Support: See instructions in table above.
7. DOI Research and Development (R&D) – Biographical Sketch: See instructions in table above.
8. Support letter from study-site State Geologist (or USGS Project Lead if there is no State Geologist for the study site): A letter of acknowledgement or support is mandatory. This letter must come from the State Geologist(s) in the state(s) where the study site is located. If the study site does not have a State Geologist (e.g., Hawaii, Guam, Puerto Rico), then a letter of support from an NCGMP-funded USGS Project Lead working in that area is sufficient. If an NCGMP-funded USGS Project Lead is not identified, then please contact the Co-Program Officers for EDMAP. It is highly recommended that discussions occur with the State Geologist/State Survey prior to the request for a letter of support. If other institutions or organizations are supporting the

proposed project, then additional letters of support are welcome. See Attachment C for State contacts.

9. Mandatory EDMAP Proposal Cover Sheet: See Attachment A for required format.

10. Proposal Technical Section: This section of the proposal is limited to 10 single-spaced pages, no smaller than 11-point font size, and 1-inch margins. Remember that a graphic can be far more beneficial than text, and the Proposal Evaluation Panel has many proposals to read. The 10-page limit includes all text, the budget narrative, figures, references, and personnel information. Letter(s) of support, attachments, budget sheets, and data management plan are not included in the 10-page limit. The technical section of the proposal must include the following:

**Abstract.** The abstract must be no more than 350 words and include:

- statement of purpose, objective, or hypothesis;
- research methods to accomplish the goal;
- expected scientific or societal impacts of the research;
- expected conclusions or outcomes; and
- statement that identifies the state and quadrangle or areas that will be mapped or otherwise addressed through mapping-related activities.

**Introduction.** The introduction should be a brief description of the problem and background. Reference should be made to any previous or current geologic mapping in the area. Please state if this project is a significant part of a thesis or dissertation. Discuss any coordination with a State Geological Survey or USGS.

- If the PI has received prior EDMAP funding, then please include a discussion of previous projects, results, impacts of previous results, and if/how this previous work relates to the work being proposed. Please be as specific as possible and include a bibliography of previous EDMAP products.

**Location and geologic setting.** The proposed study area must be located within the United States and (or) U.S. Territories. A clear, readable map (with scale) showing the location (with coordinates) of the project area must accompany the text.

- If the project area footprint (i.e., spatial boundary) of the proposed work includes Tribal Nation land, then please indicate the name(s) of the Tribal Nation(s) and provide the following details:
  - whether physical access to Tribal Nation land(s) is desired and if so, the land area designation/name (e.g., reservation, village, pueblo);
  - whether or not the proposed activity would include soil disturbance (e.g., sample collection) on or near Tribal Nation lands; and
  - details on pre-coordination, request for access, or other communication with Tribal Nations on the proposed project (if applicable).

**Purpose and Justification.** This section should answer the following simple, but important questions: Why are you doing this project? What scientific questions are you addressing? What

benefits will society receive from the mapping? If you have previously proposed similar research, then please convey how the current proposal is related to but different from this other research.

**Strategy for Performing the Project.** This section should explain how the student will achieve the scientific results presented in the previous section through geologic mapping or other activities related to geologic mapping. If multiple students are involved, then please be specific about the roles and individual projects and deliverables of each student. A short discussion about the digital cartography and GIS component related to the project is also beneficial. If the objectives can only be accomplished with the support of drilling, analytical services such as geochronology or geochemistry, or through the purchase of third-party assets (e.g., datasets), then please describe these activities here.

**Mentoring strategy and timetable.** Provide a realistic mentoring approach and timetable for completing the mapping project.

- A table embedded in the proposal can be a clear and concise way of conveying this information.
- Explain how much time the PI/faculty advisor will spend directly engaged with the student(s) and what the PI/faculty advisor specific role(s) will be.
- Clearly discuss how the PI/faculty advisor will mentor the student(s) (Primary Student Mapper(s) and field assistants) before, during, and after the field experience.
  - If the student mappers have experience in geologic mapping (for example, a second year EDMAP student), then explain why there may be a more flexible mentoring schedule versus working with a junior or senior undergraduate student who might have less experience with geologic mapping.
  - If the PI plans to be closely engaged with the student(s) throughout the project (e.g., in the field with the student mapper for the entire duration of the mapping project), then please explain how the student(s) will gain independent experience with the techniques being learned.
- If applicable, explain exactly what the field assistant(s) role(s) will be and how they will be mentored.
- State where there will be any student interaction with or mentorship from State Geological Survey staff or USGS scientists.
- **Proposals must include a discussion of field safety as part of the overall mentoring plan.** The NCGMP strongly encourages geologic mapping projects to utilize a buddy system approach to promote safe field practices.

**Deliverables.** Please provide a list of all deliverables.

- If maps are produced by the proposed project, then they must be submitted (with accompanying technical reports) by quadrangle, portion of quadrangle, or study area (indicate bounding coordinates).
- Keep in mind that the Primary Student Mapper must be the first author of the deliverable, whereas other students (e.g., mapping assistants) will be secondary authors or acknowledged on the deliverable.

- If two primary mappers are funded on a project, then two separate map deliverables and an indication of which map deliverable will be authored by which student are required.
- All EDMAP map deliverables, when possible, are required to be delivered as high-quality digital PDF files.
- All GeMS submissions must comport with GeMS Level 3 requirements and must be verified for compliance using the validation and geologic names checking scripts provided by the NGMDB via the GeMS website; these scripts and related guidance can be found here: <https://ngmdb.usgs.gov/Info/standards/GeMS/>.
- A final report (can be the student's thesis) and a transmittal letter must be submitted as deliverables with the geologic map(s) and should explicitly be listed in this section.

**Project Personnel.** Proposed personnel must include the name of the PI, other supervising professor(s), and student(s). Clearly list the Primary Student Mapper(s) and any students that will be assistants.

- A short biography of each person will assist the Proposal Evaluation Panel to judge both the qualifications of the professor(s) and the ability of the student(s) to complete the geologic mapping project. Full CV/resumes are not required if sufficient biographical information is provided.
  - Proposals submitted that do not identify the students who will do the project are allowed, giving PIs several extra months to identify students to undertake the project.
    - If students have not been selected at time of proposal submission, then the proposal must specify whether each proposed student is an undergraduate, a master's, or a Doctoral student, and must include the minimum educational requirements and qualifications for each student.
  - The name, contact information, and biography/qualifications of ALL students involved in the project (e.g., Primary Student Mapper and any assistants) must be submitted to the USGS in order to issue the cooperative agreement.
- The PI should include information about the student's prior geologic educational experience (e.g., field camp, analysis projects, or other mapping projects), and any course work that would help significantly in the project.
- The PI and other supervising professors should include teaching experience relevant to the proposed project.
- For projects that include inter-institutional collaborations, please include the expected contribution and relevant background of each PI, co-PI, and all other faculty serving in a defined role. It is important that the proposal make it clear that the combined skills and knowledge of the faculty team warrant a collaborative approach to the project.
  - Federal employees may not serve as PI or co-PI on an EDMAP project.
  - Be sure to identify which faculty member is the point of contact for NCGMP.
  - The point of contact must be a faculty member (either faculty or adjunct faculty) at the lead institution (i.e., the institution submitting the proposal and receiving funds).

**Other support.** If the student has pending requests for support to perform a similar project from other institutions, then these requests should be listed.

**Budget Narrative.** Applicants must describe and justify items and costs listed in their budget.

The budget narrative must identify the following cost items: total estimated costs, non-Federal cost share, third-party contributions, and any pre-award costs. Total project cost is the sum of all allowable costs, including required and voluntary cost share and third-party contributions.

Budget items must be:

- Reasonable, allowable, allocable, and necessary
- Compliant with [2 CFR §200 Subpart E](#) cost principles

This program has a mandated cap on indirect costs or approved rate deviation.

Indirect Costs: Applicants must indicate in their budget narrative how they will charge indirect costs, including the rate to be applied:

- De Minimis Rate: If eligible, state if your organization is opting to use the de minimis rate of up to 15% of total modified direct costs. Entities that do not have a current Federal negotiated indirect cost rate (including provisional rate) may propose to use the de minimis rate. For more information, refer to [2 CFR 200.414\(f\)](#).
- Negotiated Rate: State if you will negotiate with your cognizant agency. If your organization has previously negotiated a rate, attach a copy of the most recently negotiated rate agreement (active or expired).

It is important that the Proposal Evaluation Panel understands the proposed budget to determine if it is adequately justified for the proposed mapping project. The budget justification section should explain in detail the itemized budget entries in the included Budget Sheet (Attachment B).

Please include a description of the cost share (cash vs. in-kind). If cost share includes support from another institution or organization outside of the proposing institution, then please include a letter from that institution or organization as evidence.

Proposals must include a copy of the Indirect Negotiated Cost Rate between the institution and the Federal Government. NOTE: The 2021 Reauthorization of the National Geologic Mapping Act (Public Law 117-58, Section 40202) states that the USGS and recipients of EDMAP grants shall not use more than 15.25% of Federal funds to pay indirect, servicing, or program management charges (**which is equivalent to 18% of total direct costs**). In collaborative proposals, different rates and amounts are allowed based on the direct costs to be received by each institution. A copy of the Indirect Negotiated Cost Rate must be included for each institution claiming indirect charges. **Note that indirect costs cannot be applied to any requested or matched funds for primary mapper tuition; please ensure that any indirect costs calculations apply to all direct costs less any tuition.**

11. USGS Data Management Plan: Proposals submitted to the USGS must include a supplementary document of no more than two pages labeled "Data Management Plan" (DMP). This supplementary document should describe how the proposal will conform to USGS policy on the dissemination and sharing of research results and associated data. A valid DMP may

include only the statement that no detailed plan is needed (e.g., “No data are expected to be produced from this project”), if the statement is accompanied by a clear justification. This supplementary document (DMP) may include:

- the types of data, samples, physical collections, software, curriculum materials, and other materials to be produced during the project;
- the standards to be used for data and metadata format and content (if existing standards are absent or deemed inadequate, then this situation should be documented along with any proposed solutions or remedies);
- policies for access and sharing to include provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements;
- provisions for re-use, re-distribution, and the production of derivatives; and
- plans for archiving data, samples, and other research products, and for preservation of free public access to them.

Additional guidance on data management plans is available from the USGS Data Management web site here: <https://www.usgs.gov/data-management/data-management-plans>

12. Budget Sheet (Attachment B): Only one budget sheet per proposal is required, following the template provided (Attachment B). The Budget Sheet should contain the following:

- Salaries and/or Tuition.
  - List all students' salary rate, tuition rate (if requesting or matching with tuition), and amount of time on project for each student.
  - Faculty salary may not be requested (but can be used as match for time spent mentoring students on the project).
  - In collaborative proposals that involve more than one student, if the students are from different institutions, then it is permissible to use different salary levels, but these different salary levels must be justified in a manner that demonstrates that any differential remains equitable.
  - As a reminder, no more than 50% of the request may be for primary student mapper tuition, and no more than 50% of the total proposed match may be for primary student mapper tuition.
- Fringe Benefits.
  - Propose rates/amounts of any fringe benefits.
  - Faculty fringe benefits may not be requested (but can be used as match).
  - If rates are audit approved, then include a copy of the audit agreement and/or the name of the audit agency.
  - In collaborative proposals that involve more than one student, if the students are from different institutions, then it is permissible to use different fringe benefit levels, but these different levels must be justified in a manner that demonstrates any differential remains equitable.
  - Audit approval documentation should be provided for each institution.
- Field Expenses.
  - Itemize the estimated travel costs (i.e., number of people, number of travel days, per diem rate, mileage rate, airfare or other transportation, and any other travel costs).
  - Justification for these costs should be provided in the Budget Narrative section.

- Miscellaneous.
  - Use this section to itemize costs that are not identified elsewhere on the budget sheet. Provide an estimated breakdown to include number and cost for each item.
  - Potential miscellaneous costs include base maps, aerial photographs, petrographic thin sections, field tablets, datasets, and other expendable field and office supplies.
  - List any contractual services and associated costs in this section.
- Drilling and analytical expenses.
  - Drilling and analytical laboratory costs (e.g., geochemistry, geochronology, geophysics) are to be capped to less than 20 percent of the total proposal costs (i.e., request + match).
  - Please note that Federal EDMAP funds (i.e., request) are prohibited from being used to fund analytical work at any Federal facility.
- Total Direct Charges.
  - Sum of salaries, tuition, fringe benefits, field expenses, miscellaneous items, and drilling and analytical expenses.
  - Total Direct Charges must be matched dollar for dollar. Failure to do so will result in automatic ineligibility and the proposal will not be further evaluated. Proposed match may be greater than request, but must meet the 1:1 match requirement.
  - In collaborative proposals, partial match from each institution is allowed if the total combined match adheres to the 1:1 threshold.
- Indirect Charges.
  - See Budget Narrative section for more information on Indirect Charges.
  - Note that indirect costs cannot be applied to any requested or matched funds for primary mapper tuition; please ensure that any indirect costs calculations apply to all direct costs less any tuition.

#### Non-Allowable Requested or Matched Funds

- Teaching Assistantships.
  - EDMAP funds may be used to support student research assistantships if the student is working exclusively on the EDMAP project.
- Professional Meetings.
  - Federal EDMAP funds are not intended for travel to or registration for professional meetings, nor are they an acceptable Federal match.
- Software.
  - Software licenses and maintenance contracts are non-allowable as request or match if the proposed project is Field-Focused. Data Synthesis Projects may match or request software costs if the purchase is justified and prorated.
- Overhead Expenses.
  - Items or facilities (e.g., computers, plotters, rock lab, office space costs, etc.) may not be used as match if they are already covered by Institution overhead.

If, for logistical reasons, the budget request for one student is significantly different than that of another student, then it may be useful to submit separate, individual budget sheets.

- Please itemize budget sheet and include rates for salary and travel logistics.
- If there is a cost item that represents a large proportion of the proposal budget, then the Proposal Evaluation Panel will want to know details. Provide such details in the Budget Narrative section of the Proposal.

**Conflict of Interest and Unresolved Matters Disclosures:**

If any actual or potential conflict of interest exists related to this project at the time of application, the applicant must provide sufficient information to support a program determination of significance per [2 CFR 1402.112](#). Refer to [2 CFR 200.112](#) Conflict of Interest and [2 CFR 200.113](#).

**Overlap or Duplication of Effort Statement:**

Applicants must state in their application if the activities, costs, or time commitment of key personnel proposed in this application overlap with those in any other Federal proposal or award or not. If no overlap exists, include a statement to that effect. If any overlap exists, provide:

- Activities: Description any overlapping activities.
- Costs: Description of any overlapping costs.
- Time: Description of any overlapping key personnel time.
- A copy of any overlapping or duplicative proposal submitted to any other potential funding entity.
- Details on when any overlapping proposal was submitted, to whom, and the expected date of the funding decision.

**Other Required Information**

N/A

**SUBMISSION REQUIREMENTS AND DEADLINES**

**Address to Request Application Package**

Applicants/PIs are responsible for the proposal to be electronically submitted into GRANTS.GOV ([www.grants.gov](http://www.grants.gov)) by **May 26, 2026 @ 5:00 p.m. (EST)**. This website includes step by step instructions for GRANTS.GOV. Please be aware that the electronic submission system is relatively complex for first-time users and involves several preliminary registration steps before the proposal can be submitted (go to: [www.grants.gov](http://www.grants.gov) and click on the “Register” link at the top of the page). **Be advised that it is virtually impossible to begin the process of electronic submission for the first time if starting just a few days before the proposal submission due date.** Please contact the Office of Sponsored Programs of the applicant’s institution because this office may already have completed the registration process and should work with the applicant to submit the application.

Please allow sufficient time for the proposal to be submitted electronically and allow time for possible computer delays. It is strongly advised not to wait until the last minute for submission.

A proposal received after the closing date and time will not be considered for award, and the applicant will be notified immediately.

All Federal grant programs are required to use GRANTS.GOV to advertise program announcements. Any form that is not available online may be submitted as an attachment at the end of the proposal through the online application process.

## Submission Dates and Times

**Closing Date for Applications: May 26, 2026 @ 5:00 p.m. (EST)**

### Closing Date Explanation

\*Electronically submitted applications must be submitted no later than 3:00 PM, ET, on the listed application due date.

## Submission Instructions

### Apply Through Grants.gov

To apply through Grants.gov, please follow the instructions in the Quick Start Guide for Applicants. Before applying, ensure that at least one person at your organization is registered and has the Authorized Organization Representative (AOR). Only the AOR can submit the application. If you need more users, they must create their own Grants.gov account. Follow these steps below to apply:

- *Create a Workspace:* Creating a workspace allows you to complete it online and route it through your organization for review before submitting.
- *Complete a Workspace:* Invite participants to the workspace so you can collaborate on the application. Required applications forms are included in the Grants.gov Funding Opportunity Package and can be completed in the Workspace, unless noted otherwise in the Required Forms table above. Check for errors before submission.
- *Submit a Workspace:* An application may be submitted through workspace by clicking the Sign and Submit button on the Manage Workspace page, under the Forms tab
- *Track a Workspace Submission:* After successfully submitting a workspace application, a Grants.gov Tracking Number (GRANTXXXXXXXX) is automatically assigned to the application.

The system generates a date and time stamp and sends it to the applicant's AOR via email as proof of submission. Make sure your application passes the Grants.gov validation checks. Do not encrypt, zip, or password-protect any files. Only registered individuals in SAM as both a user and an AOR can submit applications. Please allow 30 days to register in Grants.gov.

**Application System Technical Support:** For Grants.gov technical registration and submission, downloading forms, and application packages, contact Grants.gov Customer Support at 1-800-518-4726 or by email at [Support@grants.gov](mailto:Support@grants.gov).

## APPLICATION REVIEW INFORMATION

### Eligibility Review

During the eligibility review, the application is checked for timely submission, completed packages (see [Application Documents](#) above) and alignment with the requirements of this announcement. The Federal agency may remove an application if it does not pass the eligibility review.

If an applicant selected for funding hasn't finished their SAM.gov registration (see [2 CFR 25.200](#) and [2 CFR 25.110](#)) when the federal agency is ready to make an award, we may decide that the applicant is ineligible for the award and choose to grant it to someone else. Please refer [2 CFR 25.205](#) for more information.

Prior to making an award, the DOI checks the anticipated recipient and their key project personnel against the current list of prohibited or restricted persons or entities in the System for Award Management (SAM.gov) Exclusions database. The NCGMP is prohibited from making an award if a recipient or any key personnel are found ineligible, prohibited, restricted, or otherwise excluded from receiving or participating in an award, as their ineligibility condition applies to this program.

If removed from consideration for ineligibility, the Federal agency will notify the applicant in writing.

Additionally, a specific PI may have no more than TWO active, non-delinquent EDMAP Awards at any given time. Failure to submit deliverables in a timely manner may be grounds for ineligibility.

### Merit Review

EDMAP proposals will be reviewed by an eight-member panel in June - July of 2026. Four members will be professors with previous EDMAP experience. Two members will be State Geologists chosen by the Association of American State Geologists. Two members will be USGS geologists. The Co-Program Officers for EDMAP will serve as Co-Chairs and will choose the USGS and academic members. All members will serve a three-year term. No panelist may review or take part in any discussion with other panel members prior to or during a panel meeting about a proposal that originates from their university/institution, or for which other potential conflicts of interest are recognized.

#### Evaluation Criteria.

All proposals will be evaluated using the criteria outlined below. Successful proposals will be funded in full (in some rare cases, partial funding grants may be awarded), whereas unsuccessful proposals will be rejected after the merit review. Each reviewer will complete a review for each proposal, and these reviews will become part of the official proceedings of the Proposal Evaluation Panel meeting.

**COORDINATION (10 Points)**

- Is there a Letter of Support from the State Geologist of study site, or from an appropriate USGS FEDMAP Project Lead if study site does not have a State Geological Survey?
- Is the degree of coordination with State Geological Survey and/or FEDMAP mapping goals strong?
- Are geologists from other institutions or organizations (such as the USGS, State Geological Surveys, or other Universities) included?

**JUSTIFICATION (25 points)**

- Does the project address significant science questions?
- Does the project address problems of societal value?
- Is the primary goal of the project to produce a geologic map? Is the project also producing a GeMS database of the geologic map?
- Is the proposed project well justified and does it contribute to relevant Department of the Interior and USGS scientific goals?

**TECHNICAL QUALITY (25 points)**

- Is the proposal well written and concise?
- Has the primary student(s) been identified, and is/are this/these student(s) capable of accomplishing the work?
- Can the student(s) accomplish the work in the time allowed?
- For surface mapping, is light detection and ranging, or LiDAR, to be used in the mapping process; or for subsurface mapping projects, are appropriate data sources to be used?
- Does the proposed work involve any of the following data, as appropriate for the study site: geochronology data, geochemistry data, well/core data, soil data?

**MENTORSHIP (20 points)**

- Is mapping strategy focused on developing student skills?
- Will faculty spend adequate time mentoring?
- Does the proposal describe mentoring activities before, during, and after field work activities?
- Does the proposal describe the degree of communication between PI and student?
- Is there a mentorship plan for assistant mappers?

**BUDGET (20 points)**

- Is the budget proportional to the effort required?
- Are costs reasonable relative to results?
- Are matching funds accounted for and appropriate?
- Are student salary and/or Research Assistantship (RA) funds reasonable?
- Is primary student tuition less than 50% of request and/or match?
- Are analytical costs less than or equal to 20% of the total budget?
- Is faculty support reasonable and modest?
- Is the budget well-itemized and justified?

## Review and Selection Process

The EDMAP Proposal Evaluation Panel recommends a funding level for each submitted proposal through a systematic review and rating process that integrates all Merit Review Evaluation Criteria. Each proposal receives a tabulated score between 0 and 100 (averaged across participating panel members without a conflict of interest). The final scores, in combination with total available funds for EDMAP in FY2026, will determine which proposals get funded.

The NCGMP reviews proposed budgets to:

- ensure that figures are correct;
- ensure that estimated costs are necessary and reasonable and clearly linked to project narratives;
- avoid obviously unallowable costs;
- identify costs requiring prior approval;
- ensure indirect cost rates are applied correctly;
- confirm cost sharing requirements are reflected in the budget.

The NCGMP reviews applications for potential overlap or duplication between the proposed project and any other funded or proposed project. Depending on the circumstances, DOI may choose to not make an award.

Additionally, the Proposal Evaluation Panel may recommend a score of “0” if a proposal violates the requirements of this Notice of Funding Opportunity; however, final funding decisions are at the discretion of the Co-Program Officers for EDMAP.

## Risk Review

Prior to making an award, the program assesses the risk posed by the applicant per [2 CFR 200.206](#). If an award will be made, the program may apply special conditions corresponding to the risk assessed. For awards over the simplified acquisition threshold (currently \$250,000), the program reviews eligibility and financial integrity information in the applicant’s SAM.gov records per [2 CFR 200.206\(a\)](#). The program also assesses financial management capabilities, project delivery experience, staffing resources, past performance, administration and reporting compliance records, and overall project complexity and potential challenges.

## AWARD NOTICES

Notices of Federal Award are sent electronically via GrantSolutions or e-mail. These notices outline the terms, conditions, and payment instructions per [2 CFR 200.211](#). The Notice of Federal Award signed by an authorized Grants Officer is the legal instrument obligating financial assistance to a recipient. Any other prior notice is not an authorization to begin work. If the program allows pre-award costs per [2 CFR 200.458](#), beginning performance before receiving a Notice of Federal Award is at the applicant’s own risk.

**Anticipated Project Start Date:** August 1, 2026 – December 31, 2026

**Anticipated Project End Date:** July 30, 2027 – December 30, 2028

The period of performance for a FY2026 EDMAP Award may be anywhere between 12 and 24 months.

Awards are expected to be issued on or before the requested period of performance start date, but no later than December 31, 2026.

## **POST AWARD REQUIREMENTS AND ADMINISTRATION**

### **Administration and National Policy Requirements**

For award administration and national policy requirements, see the [DOI General Terms and Conditions](#). Infrastructure projects require the use of American iron, steel, manufacture products, and construction materials per [2 CFR 184](#).

See Attachment E for Special Terms and Conditions

### **Geospatial Data**

If you receive financial assistance from the Department of the Interior (DOI), recipient must follow these rules for geospatial data:

**Follow Federal Standards:** All geospatial data you collect or create must meet the standards set by the Federal Geospatial Data Committee (FGDC) or the Department of the Interior. This is required by the Geospatial Data Act of 2018, which is part of Public Law 115-254, specifically in Subtitle F (Geospatial Data), sections 751-759C (codified at [43 U.S.C. §§ 2801–2811](#)).

**Include Metadata:** Your Geographic Information Systems (GIS) files must include complete metadata. Metadata is information that describes the data, such as where it came from, how accurate it is, and how it should be used. This is to ensure that anyone using the data understands its context and quality.

**Check for Existing Data:** Before you start collecting new geospatial data, you need to check GeoPlatform.gov. This is to see if there is already existing geospatial data from federal, state, local, or private sources that can meet your needs and is available for free. If such data is available, you should use it instead of gathering new data.

These rules help ensure that geospatial data is reliable, high-quality, and that resources are used efficiently.

The U.S. Government may publish, reproduce, and use all technical data developed because of this assistance award in any manner and for any purpose, without limitation, and may authorize others to do the same. The Co-Program Officers for EDMAP agrees to contact the authors of any EDMAP product for review and coordination in the release of technical data. Full credit for authorship will be given. Every effort to protect the scientific integrity of newly gathered data will be made by the Co-Program Officers for EDMAP.

### **2 CFR 1402.315 Availability of Data**

- (a) All data, methodology, factual inputs, models, analyses, technical information, reports, conclusions, valuation products or other scientific assessments in any

medium or form, including textual, numerical, graphic, cartographic, narrative, or audiovisual, resulting from a financial assistance agreement are available for use by the Department of the Interior, including being available in a manner that is sufficient for independent verification.

(b) The Federal Government has the right to:

- (1) Obtain, reproduce, publish, or otherwise use the data, methodology, factual inputs, models, analyses, technical information, reports, conclusions, or other scientific assessments, produced under a Federal award; and
- (2) Authorize others to receive, reproduce, publish, or otherwise use such data, methodology, factual inputs, models, analyses, technical information, reports, conclusions, or other scientific assessments, for Federal purposes, including to allow for meaningful third-party evaluation.

All deliverables that include geospatial data products must include appropriate metadata conforming to FGDC standards. FGDC standards can be found on <https://www.fgdc.gov/standards>.

### **Project Deliverables**

All deliverables (e.g., transmittal letter, technical report, geologic map, and any ancillary data promised in proposal) must be sent to the Co-Program Officers for EDMAP ([edmap@usgs.gov](mailto:edmap@usgs.gov)) and to the State Geological Survey where the study site is located (if a State Geological Survey exists for that study site) no later than 90 days after the last day of the performance period. All geologic maps, other potential deliverables under Data Synthesis Projects, and accompanying technical reports must include all student author names (identify funded EDMAP students) and the statement of EDMAP Program Credit including the award number and year funded (see Publication Requirements and Expectations).

All EDMAP deliverables are to be delivered electronically as high-quality digital PDF files. For Data Synthesis Project deliverables that may not be easily converted to a PDF, please describe the anticipated file formats in the project proposal. When the transmittal letter, technical deliverables, and accompanying technical report are submitted to the Co-Program Officers for EDMAP, a copy should be sent to the corresponding State Geological Survey and/or USGS Project Lead. The NCGMP will notify PIs about the required deliverables delivery method closer to the project end date.

### **Reporting**

The recipient's Notice of Award will detail all reporting requirements, including frequency, due dates, and instructions for requesting extensions. In general, but not limited to, recipients must:

- Submit Federal Financial reports and Program Performance reports.

- Use the [Federal Financial Report \(SF-425\) form](#) for financial reporting,
- Monitor award activities and report on program performance per [2 CFR 200.329](#),
- Promptly notify the awarding program in writing of any issues, delays, or conditions impairing award objectives per [2 CFR 200.329\(e\)](#),
- Disclose any conflicts of interest related to their award that arise during the award period per [2 CFR 1402.112](#),
- Report on the status of real property acquired under the award in which the Federal government retains an interest per [2 CFR 200.330](#), and
- Report all violations of Federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the Federal award per [2 CFR 200.113](#).
- Report any matters related to recipient integrity and performance to SAM.gov per [Appendix XII to 2 CFR 200](#).
- If the Federal share of the award is more than \$100,000 and the recipient makes or agrees to make any payment using non-appropriated funds for lobbying in connection to the award, disclose those activities using the Disclosure of Lobbying (SF-LLL) form per [43 CFR 18.100](#).
- Federal Funding Accountability and Transparency Act of 2006 (FFATA) and 2 CFR 170 requires certain recipients to report information on executive compensation, and information on all sub-awards, subcontracts and consortiums equal to or over \$30,000 to SAM.gov.

#### **Program-Specific Requirements:**

- If a university has been awarded a cooperative agreement for several students, and one or more of those students is/are unable for any reason to fulfill their geologic mapping project, then those funds awarded to the student(s) must be forfeited and cannot be reallocated to the remaining students doing mapping at that institution.
- Requests for no-cost extensions, not to exceed 90 days, shall be sent to [edmap@usgs.gov](mailto:edmap@usgs.gov) for consideration no later than 30 days prior to the effective proposal end date. After discussion with the Co-Program Officers for EDMAP, the Grant Specialist/Contracting Officer will make a final decision on a case-by-case basis and notify the PI in writing. Asking for a 90 day no-cost extension in no way jeopardizes the success of a future proposal.
- Additionally, a PI may have no more than TWO active EDMAP Awards at any given time and is ineligible for future EDMAP awards if deliverables are delinquent.
- By accepting Federal assistance, the recipient institution agrees to abide by the provisions of the NCGMP, namely the Infrastructure and Jobs Investment Act (Public Law 117-58, Section 40202).
- Upon accepting an EDMAP award, the recipient PI will be responsible for submitting a shapefile containing the polygon footprint(s) of the intended mapping area(s) and including basic project information (e.g., project title, map area name, contact information, etc.) in the attribute table following the template provided by the EDMAP Co-Program Officers. These shapefiles should be submitted to [EDMAP@usgs.gov](mailto:EDMAP@usgs.gov) on or before the EDMAP project's start date.

- By accepting Federal assistance, the recipient institution agrees to abide by U.S. Government policy and regulation as it relates to Federally recognized Tribal Nations. Additionally, by accepting Federal assistance, the recipient is required to determine if and report when proposed activities will occur on or near Federally recognized Tribal Nation trust or ceded land, and/or when a new data product is proposed that will cover any portion of Tribal Nation trust or ceded land. Please use the following website to determine if the proposed project is on or near (within five miles) Tribal Nation lands (<https://www.bia.gov/bia/ots/dris/bogs>).
- The final financial report (SF-425) is due no later than 90 days after the end of the project's Period of Performance. On or before that deadline, the SF-425 should be submitted through GrantSolutions and emailed to [sf425@usgs.gov](mailto:sf425@usgs.gov), with copies ("CC") also sent to the EDMAP Co-Program Officers ([EDMAP@usgs.gov](mailto:EDMAP@usgs.gov)) and the NCGMP Budget Analyst ([mwatson@usgs.gov](mailto:mwatson@usgs.gov)).

### **Other Information**

Performance of projects funded by this Program must conform to OMB Circular A-16 (revised). As noted in that circular, use of USGS funds for the purchase of non-expendable equipment will not be authorized.

Funds for the NCGMP and in turn, EDMAP awards, will not be available until enactment of the Department of the Interior Appropriations for a given FY. **It is anticipated that awards will not be announced until mid-July, 2026; therefore, proposed project start dates should not begin prior to August 1, 2026.** NOTE: An award issued by the USGS Office of Acquisition and Grants is required for the recipient to obligate USGS funds. Notification of a successful proposal does not constitute authority to incur costs funded by USGS money. Costs may be incurred only after the receipt of an award issued electronically through GrantSolutions from the USGS.

### **Publication Requirements and Expectations**

EDMAP recipients are encouraged to discuss publication options with the State Geologist of the proposed study site. Publication of any map produced under EDMAP is contingent upon final acceptance by State Geological Surveys and the USGS and is not based on having received an award. Map content and design guidance is available at <https://ngmdb.usgs.gov/Info/standards/>. Maps with explanatory information submitted to journals, professional organizations, or commercial firms, for publication shall be accompanied by the following notation:

*"This map and explanatory information are submitted for publication with the understanding that the United States Government is authorized to reproduce and distribute reprints for governmental use."*

Regarding data collected on or over Tribal Nation lands, related publications should be protected and sanitized as necessary to safeguard and prevent from release any data that a Tribal Nation has identified as proprietary or culturally sensitive. Data acquired concerning federally

recognized Tribal Nation lands may not be published if a Tribal Nation deems the data/findings as sensitive or protected, and objects in writing to its public release. All other project area data outside of sensitive, protected information Tribal Nation land boundaries may be published. The USGS may use restricted data internally and/or provide a copy of the restricted data to federal agencies for their internal use.

A copy of each map with all accompanying explanatory information shall be submitted to the Co-Program Officers for EDMAP simultaneously with its submission for publication. The cover letter accompanying the maps should state how a copy of these files could be obtained if needed by either the USGS or State Geological Survey. Immediately following publication, one reprint of each map shall be submitted to the Co-Program Officers for EDMAP and one reprint should also be sent to the State Geological Survey(s) for the study site.

All geologic maps or other deliverables resulting from any project carried out under this cooperative agreement resulting wholly or in part from the cooperative agreement will bear the following credit statement in the map header, on the title page of an accompanying explanatory text, and in the acknowledgments that accompany the map or any resulting report:

*“Support (or partial support) provided by the U.S. Geological Survey, National Cooperative Geologic Mapping Program [FY20XX award #XXXXXXX].”*

All maps and explanatory text submitted for publication by professional societies or commercial firms shall carry the following notation:

*“The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.”*

**--END OF AGREEMENT--**



**ATTACHMENT A**

**Mandatory EDMAP Proposal Cover Sheet**

\_\_\_\_\_  
(University/Proposing Institution, City & State)

\_\_\_\_\_  
(Collaborating Institution(s), City & State)

1. PROPOSED PROJECT TITLE: \_\_\_\_\_

2. PRINCIPAL INVESTIGATOR(s):

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

STUDENT NAME(S)/DEGREE PROGRAM/UNIVERSITY or COLLEGE:

Student Name and E-mail Address: \_\_\_\_\_

Student Degree Program and University: \_\_\_\_\_

Student Name and E-mail Address: \_\_\_\_\_

Student Degree Program and University: \_\_\_\_\_

3. AUTHORIZED UNIVERSITY REPRESENTATIVE

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

4. LIST OF DELIVERABLE(S) AND EXPECTED FORMAT. PLEASE INCLUDE BOUNDING COORDINATES (IN DMS) OF ANY PRODUCED MAP(S):

\_\_\_\_\_  
\_\_\_\_\_

5. NAME OF STATE GEOLOGIST OR USGS RESEARCH SCIENTIST CONSULTED ABOUT THIS PROPOSAL:

Name and E-mail Address: \_\_\_\_\_

6. HAS ANY STUDENT ON THIS PROPOSAL RECEIVED PREVIOUS EDMAP SUPPORT? YES / NO If yes, provide Award Number: \_\_\_\_\_

7. TYPE OF PROJECT PROPOSED?

Field-Focused Project OR Data Synthesis Project

If proposing a Data Synthesis Project, please describe the mentored field experience and how it will teach the student(s) geologic mapping skills.

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8. PLEASE DESCRIBE THE PURPOSE OF THE RESEARCH PROJECT:

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10. DOES THE STUDY AREA INCLUDE TRIBAL NATION LAND (INCLUDING CEDED TERRITORY)? YES / NO / UNSURE

If Yes, then provide the name of the affected Tribal Nation and the respective land area designator/name (e.g., reservation, village, pueblo): \_\_\_\_\_

PROPOSED PROJECT START DATE: MM/DD/YYYY

PROPOSED PROJECT END DATE: MM/DD/YYYY

PROPOSED FUNDING REQUEST: \$ \_\_\_\_\_

PROPOSED INSTITUTION MATCH: \$ \_\_\_\_\_

**ATTACHMENT B**

**Proposal Budget Sheet**

(Examples provided in blue, please delete when using template)

**Proposed Total Budget:** \_\_\_\_\_

**University/Proposing Institution:** \_\_\_\_\_

**Proposal Title:** \_\_\_\_\_

<b>Salary and Tuition</b>				
<b>Personnel</b>	<b>Rate</b>	<b>Time or % effort</b>	<b>USGS Funds</b>	<b>Recipient Matching</b>
Jane Doe, Faculty Supervisor	\$35/hour	360 hours	\$0.00	\$12,600.00
PhD Student, Primary Mapper	\$20/hour	1000 hours	\$20,000.00	\$0.00
<b>Total</b>			<b>\$</b>	<b>\$</b>

<b>Fringe</b>			
<b>Personnel</b>	<b>Fringe Rate</b>	<b>USGS Funds</b>	<b>Recipient Matching</b>
Jane Doe, Faculty Supervisor	40.20%	\$0.00	\$5,065.20
PhD Student, Primary Mapper	15%	\$3,000.00	\$0.00
<b>Total</b>		<b>\$</b>	<b>\$</b>

<b>Travel</b>				
<b>Expense</b>	<b>Rate</b>	<b>Quantity</b>	<b>USGS Funds</b>	<b>Recipient Matching</b>
Lodging	\$109/night	6 nights	\$654.00	\$0.00
<b>Total</b>			<b>\$</b>	<b>\$</b>

<b>Supplies</b>				
<b>Expense</b>	<b>Rate</b>	<b>Quantity</b>	<b>USGS Funds</b>	<b>Recipient Matching</b>

Thin Sections (not thin section analysis)	\$25/each	70	\$1000.00	\$750.00
Topographic Maps				
Sample Bags				
<b>Total</b>			<b>\$</b>	<b>\$</b>

<b>Contractual (includes subawards)</b>				
<b>Expense</b>	<b>Rate</b>	<b>Quantity</b>	<b>USGS Funds</b>	<b>Recipient Matching</b>
*University of Geology (subaward)	--	--	\$50,000.00	\$0.00
<b>Total</b>			<b>\$</b>	<b>\$</b>

Sub-awards should be listed as a single line item in the “Contractual” category. A separate budget sheet is required for each subaward and should be attached with the main recipient’s proposal.

<b>Other Direct Costs</b>				
<b>Expense</b>	<b>Rate</b>	<b>Quantity</b>	<b>USGS Funds</b>	<b>Recipient Matching</b>
Geoprobe Drilling	\$1,200/day	3 days	\$3,000.00	\$600.00
Sample Analytics (name sample type)	\$45/sample	10 samples	\$4,500.00	\$0.00
<b>Total</b>			<b>\$</b>	<b>\$</b>

<b>Direct/ Indirect Costs</b>	<b>Rate</b>	<b>USGS Funds</b>	<b>Recipient Matching</b>
Total Direct Costs	--	\$50,000.00	\$50,000.00

Indirect Cost (not to exceed 18%) *applied to Total Direct Costs LESS Tuition	18%	\$9,000.00	\$9,000.00
<b>Total</b>		<b>\$59,000.00</b>	<b>\$59,000.00</b>
Uncollected Indirect Costs (if applicable)		--	\$9,000
<b>Total Project Cost</b>		<b>\$127,000.00</b>	

**ATTACHMENT C**

**Contact Information for State Geologists/Directors**

<b>State</b>	<b>State Geologist</b>	<b>Institution or Organization</b>	<b>Email</b>
Alabama	Nick Tew, Jr.	Alabama Geological Survey	<a href="mailto:ntew@gsa.state.al.us">ntew@gsa.state.al.us</a>
Alaska	Jennifer Athey (Acting)	Alaska Division of Geology & Geophysical Surveys	<a href="mailto:jennifer.athey@alaska.gov">jennifer.athey@alaska.gov</a>
Arizona	Phil Pearthree	Arizona Geological Survey	<a href="mailto:pearthree@email.arizona.edu">pearthree@email.arizona.edu</a>
Arkansas	Scott Ausbrooks	Arkansas Geological Commission	<a href="mailto:scott.ausbrooks@arkansas.gov">scott.ausbrooks@arkansas.gov</a>
California	Jeremy Lancaster	California Geological Survey	<a href="mailto:jeremy.lancaster@conservation.ca.gov">jeremy.lancaster@conservation.ca.gov</a>
Colorado	Matt Morgan	Colorado Geological Survey	<a href="mailto:mmorgan@mines.edu">mmorgan@mines.edu</a>
Connecticut	Meghan Seremet	State Geological and Natural History Survey of Connecticut	<a href="mailto:Meghan.Seremet@ct.gov">Meghan.Seremet@ct.gov</a>
Delaware	David Wunsch	Delaware Geological Survey	<a href="mailto:dwunsch@udel.edu">dwunsch@udel.edu</a>
Florida	Guy "Harley" Means	Florida Geological Survey	<a href="mailto:Guy.Means@dep.state.fl.us">Guy.Means@dep.state.fl.us</a>
Georgia	Edward Rooks	Georgia Geologic Survey	<a href="mailto:edward.rooks@dnr.ga.gov">edward.rooks@dnr.ga.gov</a>
Hawaii	VACANT		<a href="mailto:dlnr.cwrn@hawaii.gov">dlnr.cwrn@hawaii.gov</a>
Idaho	Claudio Berti	Idaho Geological Survey	<a href="mailto:cberti@uidaho.edu">cberti@uidaho.edu</a>
Illinois	Steve Brown (Acting)	Illinois State Geological Survey	<a href="mailto:steebrow@illinois.edu">steebrow@illinois.edu</a>
Indiana	Todd Thompson	Indiana Geological Survey	<a href="mailto:tthomps@indiana.edu">tthomps@indiana.edu</a>
Iowa	Keith Schilling	Iowa Geological Survey	<a href="mailto:keith-schilling@uiowa.edu">keith-schilling@uiowa.edu</a>
Kansas	Jay Kalbas	Kansas Geological Survey	<a href="mailto:jaykalbas@ku.edu">jaykalbas@ku.edu</a>
Kentucky	Michael McGlue	Kentucky Geological Survey	<a href="mailto:michael.mcglue@uky.edu">michael.mcglue@uky.edu</a>
Louisiana	Clare Falcon	Louisiana Geological Survey	<a href="mailto:cfalcon@lsu.edu">cfalcon@lsu.edu</a>
Maine	Ryan Gordon	Maine Geological Survey	<a href="mailto:ryan.gordon@maine.gov">ryan.gordon@maine.gov</a>

Maryland	Stephen Van Ryswick	Maryland Geological Survey	<a href="mailto:stephen.vanryswick@maryland.gov">stephen.vanryswick@maryland.gov</a>
Massachusetts	Brian Yellen	Department of Geosciences, University of Massachusetts	<a href="mailto:byellen@umass.edu">byellen@umass.edu</a>
Michigan	Sara Pearson	Michigan Geological Survey	<a href="mailto:sara.pearson@wmich.edu">sara.pearson@wmich.edu</a>
Minnesota	Bob Tipping	Minnesota Geological Survey	<a href="mailto:tippi001@umn.edu">tippi001@umn.edu</a>
Mississippi	David Dockery	Mississippi Office of Geology	<a href="mailto:ddockery@mdeq.ms.gov">ddockery@mdeq.ms.gov</a>
Missouri	Carey Bridges	Missouri Geological Survey	<a href="mailto:carey.bridges@dnr.mo.gov">carey.bridges@dnr.mo.gov</a>
Montana	John Metesh	Montana Bureau of Mines & Geology	<a href="mailto:jmetesh@mtech.edu">jmetesh@mtech.edu</a>
Nebraska	R. Matt Joeckel	Nebraska Geological Survey	<a href="mailto:Rjoeckel3@unl.edu">Rjoeckel3@unl.edu</a>
Nevada	Simon Jowitt	Nevada Bureau of Mines & Geology	<a href="mailto:sjowitt@unr.edu">sjowitt@unr.edu</a>
New Hampshire	Shane Csiki	New Hampshire Geological Survey	<a href="mailto:Shane.j.csiki@des.nh.gov">Shane.j.csiki@des.nh.gov</a>
New Jersey	Steve Domber	New Jersey Geological Survey	<a href="mailto:Steven.domber@dep.nj.gov">Steven.domber@dep.nj.gov</a>
New Mexico	Mike Timmons	New Mexico Bureau of Geology & Mineral Resources	<a href="mailto:mike.timmons@nmt.edu">mike.timmons@nmt.edu</a>
New York	Andrew Kozlowski	New York State Geological Survey	<a href="mailto:Andrew.kozlowski@nysed.gov">Andrew.kozlowski@nysed.gov</a>
North Carolina	Dwain Veach	North Carolina Geological Survey	<a href="mailto:Dwain.veach@deq.nc.gov">Dwain.veach@deq.nc.gov</a>
North Dakota	Edward Murphy	North Dakota Geological Survey	<a href="mailto:emurphy@nd.gov">emurphy@nd.gov</a>
Ohio	D. Mark Jones	Ohio Geological Survey	<a href="mailto:dalton.jones@dnr.ohio.gov">dalton.jones@dnr.ohio.gov</a>
Oklahoma	Nick Hayman	Oklahoma Geological Survey	<a href="mailto:hayman@ou.edu">hayman@ou.edu</a>
Oregon	Ruarri Day-Stirrat	Oregon Department of Geology & Mineral Industries	<a href="mailto:ruarri.day-stirrat@dogami.oregon.gov">ruarri.day-stirrat@dogami.oregon.gov</a>
Pennsylvania	Gale Blackmer	Pennsylvania Geological Survey	<a href="mailto:gblackmer@pa.gov">gblackmer@pa.gov</a>
Puerto Rico	VACANT		
Rhode Island	Brian Savage	Rhode Island Geological Survey	<a href="mailto:savage@uri.edu">savage@uri.edu</a>
South Carolina	C. Scott Howard	South Carolina Geological Survey	<a href="mailto:howards@dnr.sc.gov">howards@dnr.sc.gov</a>
South Dakota	Tim Cowman	South Dakota Geological Survey	<a href="mailto:Tim.Cowman@usd.edu">Tim.Cowman@usd.edu</a>

Tennessee	Will Jackson	Tennessee Division of Geology	Will.jackson@tn.gov
Texas	Lorena Moscardelli	Texas Bureau of Economic Geology	Lorena.moscardelli@beg.utexas.edu
Utah	Darlene Batatian	Utah Geological Survey	dbatatian@utah.gov
Vermont	Benjamin Dejong	Vermont Geological Survey	<a href="mailto:benjamin.dejong@vermont.gov">benjamin.dejong@vermont.gov</a>
Virginia	Matthew Heller	Virginia Department of Mines, Minerals, & Energy	<a href="mailto:Matthew.heller@dmme.virginia.gov">Matthew.heller@dmme.virginia.gov</a>
Washington	Casey Hanell	Division of Geology & Earth Resources	<a href="mailto:Casey.hanell@dnr.wa.gov">Casey.hanell@dnr.wa.gov</a>
West Virginia	Jessica Moore	West Virginia Geological Survey	<a href="mailto:jmoore@wvgs.wvnet.edu">jmoore@wvgs.wvnet.edu</a>
Wisconsin	Sue Swanson	Wisconsin Geological Survey	<a href="mailto:Sue.swanson@wisc.edu">Sue.swanson@wisc.edu</a>
Wyoming	Erin Campbell	Wyoming State Geological Survey	<a href="mailto:erin.campbell@wyo.gov">erin.campbell@wyo.gov</a>

**ATTACHMENT D**

**Current (FY2025) EDMAP Projects**

<b>Recipient</b>	<b>PI(s)</b>
Texas Tech University	Dustin Sweet <a href="mailto:dustin.sweet@ttu.edu">dustin.sweet@ttu.edu</a>
James Madison University	Kirsty McKenzie and Steven Whitmeyer <a href="mailto:mckenzka@jmu.edu">mckenzka@jmu.edu</a> ; <a href="mailto:whitmesj@jmu.edu">whitmesj@jmu.edu</a>
University at Buffalo, Amherst	Jason Briner <a href="mailto:jbriner@buffalo.edu">jbriner@buffalo.edu</a>
Colorado School of Mines	Yvette Kuiper <a href="mailto:ykuiper@mines.edu">ykuiper@mines.edu</a>
University of Nevada, Reno	Andrew Zuzza <a href="mailto:azuzza@unr.edu">azuzza@unr.edu</a>
University of Nevada, Reno	Philipp Ruprecht <a href="mailto:pruprecht@unr.edu">pruprecht@unr.edu</a>
Montana State University	Devon Orme <a href="mailto:devon.orme@montana.edu">devon.orme@montana.edu</a>
Missouri State University	Matthew McKay <a href="mailto:matthewmckay@missouristate.edu">matthewmckay@missouristate.edu</a>
California State University Long Beach	Alyssa Abbey and Jillian Pearse <a href="mailto:alyssa.abbey@csulb.edu">alyssa.abbey@csulb.edu</a> ; <a href="mailto:jillian.pearse@csulb.edu">jillian.pearse@csulb.edu</a>
Sonoma State University	Marissa Mnich <a href="mailto:mnichm@sonoma.edu">mnichm@sonoma.edu</a>
University of California, Riverside	Andrey Bekker and Kevin Chamberlain <a href="mailto:andrey.bekker@ucr.edu">andrey.bekker@ucr.edu</a> ; <a href="mailto:kchamber@uwyo.edu">kchamber@uwyo.edu</a>
University of Nevada, Reno	Stacia Gordon <a href="mailto:staciag@unr.edu">staciag@unr.edu</a>
San Jose State University	Ryan Portner <a href="mailto:ryan.portner@sjsu.edu">ryan.portner@sjsu.edu</a>
University of Utah	Leif Anderson <a href="mailto:leif.anderson@utah.edu">leif.anderson@utah.edu</a>
Colorado State University	Rebecca VanderLeest <a href="mailto:rebecca.vanderleest@colostate.edu">rebecca.vanderleest@colostate.edu</a>
Purdue University	Michael Eddy and Kenneth Ridgway <a href="mailto:mpeddy@purdue.edu">mpeddy@purdue.edu</a> ; <a href="mailto:ridge@purdue.edu">ridge@purdue.edu</a>
University of Memphis	Daniel Larsen <a href="mailto:dlarsen@memphis.edu">dlarsen@memphis.edu</a>
University of Missouri	Tiffany Rivera <a href="mailto:trivera@missouri.edu">trivera@missouri.edu</a>
Stephen F. Austin State University	Zachariah Fleming <a href="mailto:zachariah.fleming@sfasu.edu">zachariah.fleming@sfasu.edu</a>

University of New Mexico

Marisa Repasch  
[mrepasch@unm.edu](mailto:mrepasch@unm.edu)

## ATTACHMENT E

### SPECIAL TERMS AND CONDITIONS

#### THE EDUCATION COMPONENT OF THE NATIONAL COOPERATIVE GEOLOGIC MAPPING PROGRAM (EDMAP)

##### **OFFER AND ACCEPTANCE:**

The United States of America, acting by and through the U.S. Geological Survey (USGS), hereby offers a Cooperative Agreement to the Recipient (see page 1, block 9a. titled *Grantee Name and Address*) which will be identified as the “recipient” throughout the remainder of this document.

Acceptance of a federal financial assistance award from the Department of the Interior (DOI) carries with it the responsibility to be aware of and comply with the terms and conditions of the award. Acceptance is defined as the start of work, drawing down funds, or accepting the award by signature or electronic means. Awards are based on the application submitted to and approved by DOI and are subject to the terms and conditions incorporated either directly or by reference below.

##### **SECTION A – PROJECT DESCRIPTION**

###### **A.1 Project Description**

As the education component of the National Cooperative Geologic Mapping Program (NCGMP), EDMAP carries out the NCGMP mission and addresses Department of the Interior Secretarial priorities by training students in skills needed for geologic mapping. Geologic mapping training supported by EDMAP provides the foundational capacity to capture the geologic framework information necessary to manage the land and water resources of the Nation, adapt to changes in the environment, and secure the Nation. Additionally, as EDMAP projects may occur on or near Tribal lands, NCGMP directly supports the fulfillment of the federal trust responsibility to Tribal Nations, supporting Tribal sovereignty and science needs by integrating Tribal input on geologic mapping proposed by academic partners. In addition, EDMAP support helps to maintain strong academic geologic mapping programs, which in turn produce a healthier workforce at geological surveys throughout the Nation.

###### **A.2 USGS Involvement**

Through the USGS National Cooperative Geologic Mapping Program (NCGMP) EDMAP Component, University recipients will lead efforts, coordinated with USGS NCGMP and federal/state mappers, to plan and carry out field mapping and/or analyses and interpretations to support mentored geologic mapping-focused experiential training activities for graduate and high-

level undergraduate students. Specifically, the USGS role will be to facilitate and provide direct support for these activities through a formal Federal Financial Assistance mechanism. University recipients will work closely with USGS NCGMP on planning and execution to ensure activities are closely aligned with Program priorities and in full compliance with EDMAP guidelines. The project primary investigator at the recipient university and USGS NCGMP staff will meet virtually if/as appropriate, if needed, through the duration of the project. Meetings and interactions between USGS and the recipient institution will include email and conferencing platforms. Through these activities, EDMAP benefits the geologic research community by facilitating much-needed geoscience workforce development to ensure a robust workforce across Federal, State, and academic partners in the future.

## **SECTION B – FUNDING AND AWARD PERIODS**

### **B.1 Funding**

- a) The total estimated cost of the USGS share for the performance of this agreement is located on page 1, block 13 titled *Total Federal Funds Awarded to Date for Project Period*, and is inclusive of any renewal years.
- b) The amount of federal funds obligated under this agreement shall be available for payment of costs incurred by the recipient in performance of this agreement (see page 1, block 6 titled *Project Period*). In no event shall costs be incurred in performance of this agreement in excess of the funds currently obligated (see page 1, block 13 titled *Total Federal Funds Awarded to Date for Project Period*).

### **B.2 Award Period**

The initial budget period is located on page 1, block 7 titled *Budget Period*. The total project period is located on page 1, block 6 titled *Project Period*.

### **B.3 Pre-Agreement Costs**

The recipient is not authorized to incur costs prior to the award of this agreement. Costs incurred prior to the award of this agreement are not allowable.

## **SECTION C - DELIVERABLES**

### **C.1 Progress Reports**

- a) The recipient must submit annual progress reports electronically through GrantSolutions (<https://home.grantsolutions.gov/home/>) and to the USGS Project Officer (see Page 2, Remarks) within 90 calendar days after the agreement year (i.e., 12 months after the approved effective date of the agreement and every 12 months thereafter until the expiration date of the agreement.). For agreements with a total anticipated performance period of twelve months

(12) months or less, only a final technical report will be required. A progress report is not required in the final budget year, unless the recipient requests an extension to the project period.

- b) The progress reports shall include the following information:
  - (i) A comparison of actual accomplishments to the objectives of the agreement established for the budget period and overall progress in response to the performance metrics.
  - (ii) The reasons why established goals were not met, if appropriate.
  - (iii) Additional pertinent information including, when appropriate, analysis and explanation of cost overruns or high unit costs.
  - (iv) An outline of anticipated activities and adjustments to the program during the next budget period.
  
- c) Between the required reporting dates, events may occur which have significant impact upon the project or program. In such cases, the recipient shall inform the USGS as soon as the following types of conditions become known:
  - (i) Problems, delays, or adverse conditions which will materially impair the ability to meet the objective of the agreement. This disclosure must include a statement of the action taken, or contemplated, and any assistance needed to resolve the situation.
  - (ii) Favorable developments which enable meeting time schedules and objectives sooner or at less cost than anticipated or producing more or different beneficial results than originally planned.

## **C.2 Final Technical Report**

- a) The Recipient must submit the final technical report electronically through GrantSolutions (<https://home.grantsolutions.gov/home/>) and to the USGS Project Officer (see Page 2, Remarks). The final performance report will be due 90 calendar days after the period of performance end date.
  
- b) The final technical report shall document and summarize the results of Recipient's work. The report shall include a quantitative description of activities and overall progress in response to the performance metrics which documents and summarizes the results of the entire agreement. The final report shall include tables, graphs, diagrams, sketches, etc., as required to explain the results achieved under the agreement. The report shall also include recommendations and conclusions based upon both the experience and the results obtained.

## **C.3 Annual Financial Reports**

- a) The Recipient must submit an annual SF 425, Federal Financial Report, for each individual USGS award. The SF 425 is available at [grants.gov/forms/forms-repository/post-award-reporting-forms](https://grants.gov/forms/forms-repository/post-award-reporting-forms). The SF 425 will be due within 90 days following the end of the annual

period or within 90 days following the end of each annual period coinciding with the award start date.

- b) The SF 425 must be submitted electronically through GrantSolutions (<https://home.grantsolutions.gov/home/>). Recipient must include the USGS award number (see page 1, block 4 titled *Grant No.*) in the subject line of all e-mail correspondence. If, after 90 days, recipient has not submitted a report, the recipient's account in Automated Standard Application for Payments (ASAP) will be placed in a manual review status until the report is submitted.

#### **C.4 Final Financial Report**

- a) The Recipient will liquidate all obligations incurred under the award and submit a final SF 425, Federal Financial Report in accordance with C.3.b. no later than 120 calendar days after the agreement completion date.
- b) Recipient will promptly return any unexpended federal cash advances or will complete a final draw from ASAP to obtain any remaining amounts due. Once 120 days has passed since the agreement completion date, USGS shall unilaterally de-obligate federal funds as reflected in the final SF 425.
- c) Subsequent revision to the final SF 425 will be considered only as follows:
  - i. When the revision results in a balance due to the Government, the recipient must submit a revised final SF 425, Federal Financial Report, and refund the excess payment whenever the overcharge is discovered, no matter how long the lapse of time since the original due date of the report.
  - ii. When the revision represents additional reimbursable costs claimed by the recipient, a revised final SF 425 may be submitted to the USGS Grants Specialist ([abrazil@usgs.gov](mailto:abrazil@usgs.gov)) with an explanation. If approved, the USGS will either request and pay a final invoice or reestablish the ASAP subaccount to permit the recipient to make a revised final draw. Any revised final report representing additional reimbursable amounts must be submitted no later than 1 year from the due date of the original report, i.e., 15 months following the agreement completion date. USGS will not accept any revised SF 425 covering additional expenditures after that date and will return any late request for additional payment to the Recipient.

#### **C.5 Publications**

- a) Acknowledgment of Support

Recipient is responsible for assuring that an acknowledgment of USGS support:

1. is made in any publication (including World Wide Web pages) of any material based on or developed under this agreement, in the following terms:

This material is based upon work supported by the U.S. Geological Survey under Grant/Cooperative Agreement No. (see page 1, block 4 titled: Grant No.).

2. is orally acknowledged during all news media interviews, including popular media such as radio, television and news magazines.

b) Disclaimer

Recipient is responsible for assuring that every publication of material (including World Wide Web pages) based on or developed under this agreement, contains the following disclaimer:

The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the opinions or policies of the U.S. Geological Survey. Mention of trade names or commercial products does not constitute their endorsement by the U.S. Geological Survey.

c) USGS Logo

Use of the USGS logo (also known as "visual identity" or "identifier") constitutes the recipient's agreement to and acceptance of the following terms:

- The USGS identifier is trademarked and not in the public domain.
- Use of the trademarked USGS identifier is authorized by USGS for use only by recipients of USGS funding.
- Use is authorized on information products that result from research funded by the financial assistance award.
- Use the USGS identifier for any other purpose without written permission from USGS is prohibited; doing so constitutes trademark infringement.
- Recipient will adhere to the design requirements, which are as follows:
  - The USGS identifier must appear in black, white, or green only.
  - The USGS identifier cannot be modified in any way except for proportional sizing.
  - The USGS identifier should appear at the same size as logos of other agencies, if any.
  - If used on a digital product, the USGS identifier should link to [www.usgs.gov](http://www.usgs.gov)

d) Publication

Publication of the results of any project carried out under this assistance award is authorized in professional journals, trade magazines, or may be made by the USGS. Such manuscripts

or publications submitted to journals or professional publications for publication shall be accompanied by the following notation:

This manuscript is submitted for publication with the understanding that the United States Government is authorized to reproduce and distribute reprints for Governmental purposes.

e) Copies for USGS

Recipient is responsible for assuring that the USGS Project Office is provided a digital version, preferably as a MS Word DOCx file, of every accepted manuscript upon acceptance for publication by the journal.

f) Department of the Interior Requirements

Two copies of each publication produced under a grant or cooperative agreement shall be sent to the Natural Resources Library with a transmittal that identifies the sender and the publication. The address of the library is:

U.S. Department of the Interior  
Natural Resources Library  
Division of Information and Library Services  
Gifts and Exchange Section  
18th and C Streets, NW  
Washington, DC 20240

## **SECTION D – ASSISTANCE ADMINISTRATIVE DATA**

### **D.1 Assistance Administration**

This agreement will be administered by:

Amber Brazil  
Grants Specialist  
U.S. Geological Survey  
Office of Acquisition and Grants  
12201 Sunrise Valley Drive, MS 205  
Reston, VA 20192  
703-648-7477  
abrazil@usgs.gov

Written communications shall make reference to the assistance award number and shall be mailed (or emailed) to the above address.

## **D.2 Payment**

Payments under financial assistance awards must be made using the Department of the Treasury Automated Standard Application for Payments (ASAP) system ([www.asap.gov](http://www.asap.gov)).

- a) The recipient agrees that it has established or will establish an account with ASAP. USGS will initiate enrollment in ASAP. If the recipient does not currently have an ASAP account, they must designate an individual (name, title, address, phone and e-mail) who will serve as the Point of Contact (POC).
- b) With the award of each grant/cooperative agreement, a sub-account will be set up from which the recipient can draw down funds. After recipient's complete enrollment in ASAP and link their banking information to the USGS ALC (14080001), it may take up to 10 days for sub-accounts to be activated and for funds to be authorized for drawdown in ASAP.
- c) Inquiries regarding payment should be directed to ASAP at 855-868-0151.
- d) Payments may be drawn in advance only as needed to meet immediate cash disbursement needs.

## **D.3 Revisions and Prior Approvals**

Modifications to this agreement shall generally be executed by mutual written consent of the parties, with the exception of certain purely administrative changes that may be executed unilaterally by the USGS. Recipients may make certain limited budgetary and programmatic changes without prior USGS approval as outlined in 2 CFR 200.308 and 200.407. Any proposed change which requires prior written approval of the USGS shall be sent to [EDMAP@usgs.gov](mailto:EDMAP@usgs.gov) at least thirty (30) days prior to the requested effective date of the proposed change. The USGS will respond to the change request within thirty (30) days of receipt.

- a) Extensions. Recipients are specifically advised that requests for extension or other change to the budget or project period(s) require prior written approval. Such requests must be submitted as outlined above and be accompanied by a statement supporting the extension and a revised budget (if necessary) indicating the planned use of all unexpended funds during the proposed extension period. A revised budget is not required for no cost extensions.
- b) Transfer of Funds. Recipients are specifically advised that prior written approval is not required for transfer of funds between direct cost categories when the cumulative amount of the transfer during the performance period does not exceed ten percent (10%) of the total USGS award. Prior written approval is required from the USGS Program Office for transfers of funds in excess of the ten percent limitation.
- c) Carry Forward of Funds. Not Applicable to awards issued under the EDMAP Program.

## **SECTION E - GENERAL PROVISIONS**

### **E.1 Department of the Interior Standard Terms and Conditions**

The recipient shall be subject to the Department of the Interior Standard Terms and Conditions which are incorporated herein by reference and available on the Internet at: [DOI Standard Terms and Conditions | U.S. Department of the Interior: https://www.doi.gov/grants/doi-standard-terms-and-conditions](https://www.doi.gov/grants/doi-standard-terms-and-conditions)

### **E.2 Additional Terms and Conditions**

#### a) Research Integrity

- 1) USGS requires that all grant or cooperative agreement recipient organizations adhere to the federal policy on Research Misconduct, Office of Science and Technology Policy, December 6, 2000, 65 Federal Register (FR) 76260. The federal policy on research misconduct outlines requirements for addressing allegations of research misconduct, including the investigation, adjudication, and appeal of allegations of research misconduct and the implementation of appropriate administrative actions.
- 2) The recipient must promptly notify the USGS Project Office when research misconduct that warrants an investigation pursuant to the federal policy on research misconduct is alleged.

#### b) Data Availability

- 1) Applicability. The Department of the Interior is committed to basing its decisions on the best available science and providing the American people with enough information to thoughtfully and substantively evaluate the data, methodology, and analysis used by the Department to inform its decisions.
- 2) Use of Data. The regulations at 2 CFR 200.315 apply to data produced under a federal award, including the provision that the Federal Government has the right to obtain, reproduce, publish, or otherwise use the data produced under a federal award as well as authorize others to receive, reproduce, publish, or otherwise use such data for federal purposes.
- 3) Availability of Data. The recipient shall make the data produced under this award and any subaward(s) available to the Government for public release, consistent with applicable law, to allow meaningful third party evaluation and reproduction of the following:
  - a. The scientific data relied upon;
  - b. The analysis relied upon; and
  - c. The methodology, including models, used to gather and analyze the data.

c) Conflict of Interest

1) Applicability.

- a. This section intends to ensure that non-federal entities and their employees take appropriate steps to avoid conflicts of interest in their responsibilities under or with respect to federal financial assistance agreements.
- b. In the procurement of supplies, equipment, construction, and services by recipients and by subrecipients, the conflict of interest provisions in 2 CFR 200.318 apply.

2) Requirements.

- a. Non-federal entities must avoid prohibited conflicts of interest, including any significant financial interests that could cause a reasonable person to question the recipient's ability to provide impartial, technically sound, and objective performance under or with respect to a federal financial assistance agreement.
- b. In addition to any other probations that may apply with respect to conflicts of interest, no key official of an actual or proposed recipient or subrecipient, who is substantially involved in the proposal or project, may have been a former federal employee who, within the last one (1) year, participated personally and substantially in the evaluation, award, or administration of an award with respect to that recipient or subrecipient or in development of the requirement leading to the funding announcement.
- c. No actual or prospective recipient or subrecipient may solicit, obtain, or use non-public information regarding the evaluation, award, or administration of an award to that recipient or subrecipient or the development of a federal financial assistance opportunity that may be of competitive interest to that recipient or subrecipient.

3) Notification.

- a. Non-federal entities, including applicants for financial assistance awards, must disclose in writing any conflict of interest to the DOI awarding agency or pass-through entity in accordance with 2 CFR 200.112, Conflicts of Interest.
- b. Recipients must establish internal controls that include, at a minimum, procedures to identify, disclose, and mitigate or eliminate identified conflicts of interest. The recipient is responsible for notifying the USGS Grants Management Official in writing of any conflicts of interest that may arise during the life of the award, including those that have been reported by subrecipients.

- 4) Restrictions on Lobbying. Non-federal entities are strictly prohibited from using funds under this grant or cooperative agreement for lobbying activities and must provide the required certifications and disclosures pursuant to 43 CFR Part 18 and 31 USC 1352.
- 5) Review Procedures. The USGS Grants Management Official will examine each conflict-of-interest disclosure on the basis of its particular facts and the nature of the proposed grant or cooperative agreement, and will determine whether a significant potential conflict exists and, if it does, develop and appropriate means for resolving it.
- 6) Enforcement. Failure to resolve conflicts of interest in a matter that satisfies the Government may be cause for termination of the award. Failure to make required disclosures may result in any of remedies described in 2 CFR 200.338, Remedies for Noncompliance, including suspension or debarment (see also 2 CFR Part 180).

d) Program Income

- 1) If the recipient is an educational institution or nonprofit research organization, any other program income will be added to funds committed to the project by the federal awarding agency and recipient and be used to further eligible project or program objectives, as described in 2 CFR 200.307(e)(2).
- 2) For all other types of recipients, any other program income will be deducted from total allowable costs to determine the net allowable costs before calculating the Government's share of reimbursable costs, as provided in 2 CFR 200.307(e)(1).

e) Government Furnished Equipment or Equipment Authorized for Purchase

Title to equipment acquired wholly or in part with federal funds shall be vested in the recipient unless otherwise specified in the award document. The recipient shall retain control and maintain an inventory of such equipment as long as there is a need for such equipment to accomplish the purpose of the project, whether or not the project continues to be supported by federal funds. When there is no longer a need for such equipment to accomplish the purpose of the project, the recipient shall use the equipment in connection with other federal awards the recipient has received. Disposal of equipment shall be in accordance with 2 CFR 200.313.

No equipment is provided or authorized for purchase on this grant/cooperative agreement.

f) Patent Rights (37 CFR § 401.14)

Unless otherwise provided in the agreement, if this agreement is for experimental, developmental, or research work, the following clause (implementing the Bayh-Dole Act, [35 U.S.C. § 200 et seq.]) shall apply. The recipient shall include this clause in all subawards for experimental, developmental, or research activities.

a. *Definitions*

1. INVENTION means any invention or discovery which is or may be patentable or otherwise protectable under Title 35 of the USC, to any novel variety of plant which is or may be protected under the Plant Variety Protection Act (7 U.S.C. § 2321 et seq.).
2. SUBJECT INVENTION means any invention of the recipient conceived or first actually reduced to practice in the performance of work under this agreement, provided that in the case of a variety of plant, the date of determination (as defined in section 41(d)) must also occur during the period of performance.
3. PRACTICAL APPLICATION means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.
4. MADE when used in relation to any invention means the conception or first actual reduction to practice of such invention.
5. SMALL BUSINESS FIRM means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of this clause, the size standards for small business concerns involved in government procurement and subcontracting at 13 CFR 121.3-8 and 13 CFR 121.3-12, respectively, will be used.
6. NON-PROFIT ORGANIZATION means a domestic university or other institution of higher education or an organization of the type described in Section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. § 501(c)) and exempt from taxation under Section 501(a) of the Internal Revenue Code (26 U.S.C. § 501(a)) or any domestic non-profit scientific or educational organization qualified under a State non-profit organization statute.

b. *Allocation of Principal Rights*

1. The recipient may retain the entire right, title, and interest throughout the world to each subject invention solely made by recipient subject to the provisions of this Patent Rights clause, including (2) below, 35 U.S.C. §§ 202, 203 and 37 CFR § 401.14. Inventions made under this agreement jointly by USGS and recipient will be jointly owned by both parties. However, where a USGS employee is a coinventor, the USGS may, for the purpose of consolidating rights in the invention and if it finds that it would expedite the development of the invention:
  - (a) license or assign whatever rights it may acquire in the subject invention to the nonprofit organization, small business firm, or non-federal inventor in accordance with the provisions of this chapter; or
  - (b) acquire any rights in the subject invention from the nonprofit organization, small business firm, or non-federal inventor, but only to the extent the party from whom the rights are acquired voluntarily enters into the transaction and no other transaction under this chapter is conditioned on such acquisition.

With respect to any subject invention in which the recipient retains title, the federal Government shall have a non-exclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the U.S. the subject invention throughout the world. If the agreement indicates it is subject to an identified international agreement or treaty, the U.S. Geological Survey (USGS) also has the right to direct the recipient to convey to any foreign participant such patent rights to subject inventions as are required to comply with that agreement or treaty.

2. If the recipient performs services at a Government owned and operated laboratory or at a Government owned and recipient operated laboratory directed by the Government to fulfill the Government's obligations under a Cooperative Research and Development Agreement (CRADA) authorized by 15 U.S.C. 3710a, the Government may require the recipient to negotiate an agreement with the CRADA collaborating party or parties regarding the allocation of rights to any subject invention the recipient makes, solely or jointly, under the CRADA. The agreement shall be negotiated prior to the recipient undertaking the CRADA work or, with the permission of the Government, upon the identification of a subject invention. In the absence of such an agreement, the recipient agrees to grant the collaborating party or parties an option for a license in its inventions of the same scope and terms set forth in the CRADA for inventions made by the Government.

c. *Invention Disclosure, Election of Title and Filing of Patent Applications by Recipient*

1. The recipient will disclose each subject invention to USGS within two months after the inventor discloses it in writing to recipient personnel responsible for the administration of patent matters. The disclosure to USGS shall be in the form of a written report and shall identify the agreement under which the invention was made and the inventor(s). It shall be sufficiently complete in technical detail to convey a clear understanding of the nature, purpose, operation, and, to the extent known, the physical, chemical, biological or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale or public use of the invention, whether a manuscript describing the invention has been submitted for publication and, if so, whether it has been accepted for publication, at the time of disclosure. In addition, after disclosure to USGS, the recipient will promptly notify USGS of the acceptance of any manuscript describing the invention for publication, or of any on sale or public use planned by the recipient.
2. The recipient will elect in writing whether or not to retain title to any such invention by notifying USGS within two years of disclosure to USGS. However, in any case where publication, on sale, or public use has initiated the one-year statutory period wherein valid patent protection can still be obtained in the U.S., the period for election of title may be shortened by USGS to a date that is no more than 60 days prior to the end of the statutory period.
3. The recipient will file its initial patent application on an invention to which it elects to retain title within one year after election of title or, if earlier, prior to the end of any statutory period wherein valid patent protection can be obtained in the U.S. after a publication, on sale, or public use. The recipient will file patent applications in additional countries or international patent offices within either ten months of the

corresponding initial patent application, or six months from the date when permission is granted by the Commissioner of Patents and Trademarks to file foreign patent applications when such filing has been prohibited by a Secrecy Order.

4. Requests for extension of the time for disclosure to USGS, election, and filing under subparagraphs 1., 2., and 3. may, at the discretion of USGS, be granted.

d. *Conditions When the Government May Obtain Title*

The recipient will convey to USGS, upon written request, title to any subject invention:

1. if the recipient fails to disclose or elect the subject invention within the times specified in paragraph c. above, or elects not to retain title, provided that USGS may only request title within 60 days after learning of the failure of the recipient to disclose or elect within the specified times;
2. in those countries in which the recipient fails to file patent applications within the times specified in paragraph c. above, but prior to its receipt of the written request of USGS, the recipient shall continue to retain title in that country; or in any country in which the recipient decides not to continue the prosecution of any application for, to pay the maintenance fees on, or defend in a reexamination or opposition proceeding on, a patent on a subject invention.

e. *Minimum Rights to Recipient*

1. The recipient will retain a non-exclusive royalty-free license throughout the world in each subject invention to which the Government obtains title, except if the recipient fails to disclose the subject invention within the times specified in paragraph c. above. The recipient's license extends to its domestic subsidiaries and affiliates, if any, within the corporate structure of which the recipient is a party and includes the right to grant sublicenses of the same scope to the extent the recipient was legally obligated to do so at the time the agreement was made. The license is transferable only with the approval of USGS except when transferred to the successor of that part of the recipient's business to which the invention pertains.
2. The recipient's domestic license may be revoked or modified by USGS to the extent necessary to achieve expeditious practical application of the subject invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions at 37 CFR Part 404. This license will not be revoked in that field of use or the geographical areas in which the recipient has achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at discretion of USGS to the extent the recipient, its licensees, or its domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country.
3. Before revocation or modification of the license, USGS will furnish the recipient a written notice of its intention to revoke or modify the license, and the recipient will be allowed thirty days (or such other time as may be authorized by USGS for good cause shown by the recipient) after the notice to show cause why the license should not be revoked or modified. The recipient has the right to appeal, in accordance with applicable regulations in 37 CFR Part 404 concerning the licensing of Government-

owned inventions, any decision concerning the revocation or modification of its license.

f. *Recipient Action to Protect Government's Interest*

1. The recipient agrees to execute or to have executed and promptly deliver to USGS all instruments necessary to: (i) establish or confirm the rights the Government has throughout the world in those subject inventions for which the recipient retains title; and (ii) convey title to USGS when requested under paragraph d. above, and to enable the Government to obtain patent protection throughout the world in that subject invention.
2. The recipient agrees to require, by written agreement, its employees, other than clerical and non-technical employees, to disclose promptly in writing to personnel identified as responsible for the administration of patent matters and in a format suggested by the recipient each subject invention made under this agreement in order that the recipient can comply with the disclosure provisions of paragraph c. above, and to execute all papers necessary to file patent applications on subject inventions and to establish the Government's rights in the subject inventions. The disclosure format should require, as a minimum, the information requested by paragraph c.1 above. The recipient shall instruct such employees through the employee agreements or other suitable educational programs on the importance of reporting inventions in sufficient time to permit the filing of patent applications prior to U.S. or foreign statutory bars.
3. The recipient will notify USGS of any decision not to continue prosecution of a patent application, pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than 30 days before the expiration of the response period required by the relevant patent office.
4. The recipient agrees to include, within the specification of any U.S. patent application and any patent issuing thereon covering a subject invention, the following statement: "This invention was made with Government support under (identify the agreement) awarded by the U.S. Geological Survey. The Government has certain rights in this invention."
5. The recipient or its representative will complete, execute and forward to USGS a confirmation of a License to the U.S. Government and the page of a United States patent application that contains the federal support clause within two months of filing any domestic or foreign patent application.

g. *Subcontracts*

1. The recipient will include this Patent Rights clause, suitably modified to identify the parties, in all subcontracts, regardless of tier, for experimental, developmental or research work. The subcontractor will retain all rights provided for the recipient in this Patent Rights clause, and the recipient will not, as part of the consideration for awarding the subcontract, obtain rights in the subcontractors' subject inventions.
2. In the case of subcontracts, at any tier, when the prime award by USGS was a contract (but not a cooperative agreement), USGS, subcontractor, and contractor agree that the mutual obligations of the parties created by this Patent Rights clause

constitute a contract between the subcontractor and the Foundation with respect to those matters covered by this Patent Rights clause.

h. *Reporting on Utilization of Subject Inventions*

The recipient agrees to submit on request periodic reports no more frequently than annually on the utilization of a subject invention or on efforts at obtaining such utilization that are being made by the recipient or its licensees or assignees. Such reports shall include information regarding the status of development, date of first commercial sale or use, gross royalties received by the recipient and such other data and information as USGS may reasonably specify. The recipient also agrees to provide additional reports in connection with any march-in proceeding undertaken by USGS in accordance with paragraph j. of this Patent Rights clause. As required by 35 U.S.C. § 202(c)(5), USGS agrees it will not disclose such information to persons outside the Government without the permission of the recipient.

i. *Preference for United States Industry*

Notwithstanding any other provision of this Patent Rights clause, the recipient agrees that neither it nor any assignee will grant to any person the exclusive right to use or sell any subject invention in the U.S. unless such person agrees that any products embodying the subject invention or produced through the use of the subject invention will be manufactured substantially in the U.S. However, in individual cases, the requirement for such an agreement may be waived by USGS upon a showing by the recipient or its assignee that reasonable but unsuccessful efforts have been made to award licenses on similar terms to potential licensees that would be likely to manufacture substantially in the U.S. or that under the circumstances domestic manufacture is not commercially feasible.

j. *March-in Rights*

The recipient agrees that with respect to any subject invention in which it has acquired title, USGS has the right in accordance with procedures at 37 CFR § 401.6 and USGS regulations at 45 CFR § 650.13 to require the recipient, an assignee or exclusive licensee of a subject invention to grant a non-exclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances and if the recipient, assignee, or exclusive licensee refuses such a request, USGS has the right to grant such a license itself if USGS determines that:

1. such action is necessary because the recipient or assignee has not taken or is not expected to take within a reasonable time, effective steps to achieve practical application of the subject invention in such field of use;
2. such action is necessary to alleviate health or safety needs which are not reasonably satisfied by the recipient, assignee, or their licensees;
3. such action is necessary to meet requirements for public use specified by federal regulations and such requirements are not reasonably satisfied by the recipient, assignee, or licensee; or
4. such action is necessary because the agreement required by paragraph i. of this Patent Rights clause has not been obtained or waived or because a licensee of the exclusive right to use or sell any subject invention in the U.S. is in breach of such agreement.

k. *Special Provisions for Agreements with Non-profit Organizations*

If the recipient is a nonprofit organization, it agrees that:

1. rights to a subject invention in the U.S. may not be assigned without the approval of USGS, except where such assignment is made to an organization which has as one of its primary functions the management of inventions, provided that such assignee will be subject to the same provisions as the recipient;
2. the recipient will share royalties collected on a subject invention with the inventor, including federal employee co-inventors (when USGS deems it appropriate) when the subject invention is assigned in accordance with 35 U.S.C. § 202(e) and 37 CFR § 401.10;
3. the balance of any royalties or income earned by the recipient with respect to subject inventions, after payment of expenses (including payments to inventors) incidental to the administration of subject inventions, will be utilized for the support of scientific or engineering research or education; and
4. it will make efforts that are reasonable under the circumstances to attract licensees of subject inventions that are small business firms and that it will give preference to a small business firm if the recipient determines that the small business firm has a plan or proposal for marketing the invention which, if executed, is equally likely to bring the invention to practical application as any plans or proposals from applicants that are not small business firms; provided that the recipient is also satisfied that the small business firm has the capability and resources to carry out its plan or proposal. The decision whether to give a preference in any specific case will be at the discretion of the recipient. However, the recipient agrees that the Secretary of Commerce may review the recipient's licensing program and decisions regarding small business applicants, and the recipient will negotiate changes to its licensing policies, procedures or practices with the Secretary when the Secretary's review discloses that the recipient could take reasonable steps to implement more effectively the requirements of this paragraph k.4.

l. *Communications*

All communications required by this Patent Rights clause must be submitted through iEdison or the Office of Policy and Analysis (OPA), U.S. Geological Survey, Reston, VA 20192, [gs\\_usgs\\_patents@usgs.gov](mailto:gs_usgs_patents@usgs.gov).

## **SECTION F – SPECIAL PROVISIONS**

### **Geospatial Requirements**

The Geospatial Data Act of 2018 outlines specific requirements for federal recipients when collecting or producing geospatial data using Department of the Interior financial assistance funds. Here's a summary of the key points:

- **Due Diligence Search:** Federal recipients must first check the GeoPlatform.gov list of datasets to see if the needed geospatial data, products, or services already exist.

- **Use of Existing Data:** If the required data is already available, recipients must use it rather than producing new data.
- **Production of New Data:** If the needed data is not available, recipients must produce new geospatial data, products, or services in accordance with guidance and standards established by the Federal Geospatial Data Committee (FGDC), which can be found at [www.fgdc.gov](http://www.fgdc.gov).
- **Submission Requirements:** Recipients must submit a digital copy of all GIS data produced or collected under the award to the relevant bureau or office.
- **Data Format:** All GIS data files must be in an open format.
- **Metadata Requirements:** All delineated GIS data (such as points, lines, or polygons) should be compliant with approved open data standards and include complete feature-level metadata.

These requirements ensure that geospatial data is managed efficiently, used appropriately, and made accessible in a standardized format for future use and sharing. open data standards with complete feature level metadata.

## **2 CFR 1402.315 Availability of Data**

(a) All data, methodology, factual inputs, models, analyses, technical information, reports, conclusions, valuation products or other scientific assessments in any medium or form, including textual, numerical, graphic, cartographic, narrative, or audiovisual, resulting from a financial assistance agreement is available for use by the Department of the Interior, including being available in a manner that is sufficient for independent verification.

(b) The Federal Government has the right to:

- (1) Obtain, reproduce, publish, or otherwise use the data, methodology, factual inputs, models, analyses, technical information, reports, conclusions, or other scientific assessments, produced under a federal award; and
- (2) Authorize others to receive, reproduce, publish, or otherwise use such data, methodology, factual inputs, models, analyses, technical information, reports, conclusions, or other scientific assessments, for federal purposes, including to allow for meaningful third-party evaluation.

## **SECTION G – DOCUMENTS INCORPORATED BY REFERENCE AND ORDER OF PRECEDENCE**

### **G.1 Documents Incorporated By Reference**

The following documents are hereby incorporated into this agreement by reference:

- 1) The Recipient’s proposal
- 2) The Recipient’s application for financial assistance (SF424, SF424A, SF424B)

## **G.2 Order of Precedence**

In the event of any inconsistency within this agreement, the following order of precedence shall be followed:

- 1) The cover page.
- 2) Sections A through F of this agreement.
- 3) Documents incorporated by reference (see G.1) in the order in which they are incorporated.

**– END OF ASSISTANCE AWARD DOCUMENT –**

--END OF ATTACHMENTS--