



NOTICE OF INTENT TO AWARD

This Funding Announcement is not a request for applications. This announcement is to provide public notice of the U.S. Geological Survey's intention to fund the following project activities without full and open competition.

ABSTRACT	
Funding Announcement	USGS-18-FAC-0226 G18AC00226
Project Title	Planetary Spatial Data Infrastructure Development and Support
Recipient	Dr. Ross Beyer, SETI Institute
Principal Investigator / Program Manager	Dr. Ross Beyer SETI Institute 189 Bernardo Avenue, Suite 200 Mountain View, CA 94043
Anticipated Federal Amount	Planned Obligation Value: \$50,000 and Planned Total Value \$200,000
Cost Share	N/A
Total Anticipated Award Amount	Planned Obligation Value: \$50,000 and Planned Total Value \$200,000
New Award or Continuation?	New
Anticipated Period of Performance	Date of Award to 6/30/2022
Award Instrument	Cooperative Agreement
CFDA # and Title	15.808 Research & Data Collection
USGS Point of Contact	Cheryl Ciccarelli cciccarelli@usgs.gov 916-278-9346 Sasha Klingler sklingler@usgs.gov 916-278-9333

OVERVIEW

The major goal of the proposed research is to address the complexity of storing, discovering, accessing and utilizing spatial data. The agreement is established to facilitate general cooperation between USGS and the Dr. Ross Beyer, SETI Institute.

RECIPIENT INVOLVEMENT

Recipient will

Year 1 Project Tasks

Dr. Ross Beyer is a planetary scientist with extensive experience in planetary data standards, archives, technology, and dissemination. Beyer is a member of the Mapping and Planetary Spatial Infrastructure Team (MAPSIT) that advises the NASA Planetary Science Advisory Committee of the PSDI priorities for the planetary science community. Beyer will assist with synthesis of results and will contribute to a manuscript summarizing key findings from geologic mapping. Specific tasks for Dr. Beyer are to: 1) Participate in the long term planning efforts of the Mapping and Planetary Spatial Infrastructure Team (MAPSIT) which reports to the NASA Planetary Science Advisory Committee regarding the development and support of a PSDI, 2) Coordinate the review of key spatial data infrastructural tools and services for the planetary science community, and 3) support the camera sensor model (CSM) application prototype interface (API) standard to work across existing photogrammetry systems. The incorporation of the CSM API with the NASA AMES Stereo-pipeline helps to meet this goal for the NASA community, future missions, and the overall PSDI effort.

USGS INVOLVEMENT

Substantial involvement on the part USGS is anticipated for the successful completion of the objectives to be funded by this award. In particular, USGS will be responsible for the following:

1. Joint participation in Mapping and Planetary Spatial Infrastructure Team (MAPSIT) meetings and long-term planning.
2. Joint coordination and review of key spatial data infrastructure tools and services for the planetary science community.
3. Support the camera sensor model (CSM) application prototype interface (API) standard to work across existing photogrammetry systems. The incorporation of the CSM API with the NASA AMES Stereo-pipeline helps to meet this goal for the NASA community, future missions, and the overall PSDI effort.

SINGLE-SOURCE JUSTIFICATION

DEPARTMENT OF THE INTERIOR SINGLE SOURCE POLICY REQUIREMENTS
Department of the Interior Policy (505 DM 2) requires a written justification which explains why competition is not practicable for each single-source award. The justification must

address one or more of the following criteria as well as discussion of the program legislative history, unique capabilities of the proposed recipient, and cost-sharing contribution offered by the proposed recipient, as applicable.

In order for an assistance award to be made without competition, the award must satisfy one or more of the following criteria:

- (1) Unsolicited Proposal – The proposed award is the result of an unsolicited assistance application which represents a unique or innovative idea, method, or approach which is not the subject of a current or planned contract or assistance award, but which is deemed advantageous to the program objectives;
- (2) Continuation – The activity to be funded is necessary to the satisfactory completion of, or is a continuation of an activity presently being funded, and for which competition would have a significant adverse effect on the continuity or completion of the activity;
- (3) Legislative intent – The language in the applicable authorizing legislation or legislative history clearly indicates Congress’ intent to restrict the award to a particular recipient of purpose;
- (4) Unique Qualifications – The applicant is uniquely qualified to perform the activity based upon a variety of demonstrable factors such as location, property ownership, voluntary support capacity, cost-sharing ability if applicable, technical expertise, or other such unique qualifications;
- (5) Emergencies – Program/award where there is insufficient time available (due to a compelling and unusual urgency, or substantial danger to health or safety) for adequate competitive procedures to be followed.
- (6) Cooperative Agreements - USGS Unique Authority cited at 43 U.S.C. 36d (Federal, State, and academic partners) or DOI Authority cited at 43 U.S.C. 1457b (not-for-profit organizations).

Single Source Justification Description

USGS did not solicit full and open competition for this award based the following criteria:

(4) Unique Qualifications - Dr. Ross Beyer is a planetary scientist with extensive experience in planetary data standards, archives, technology, and dissemination. Beyer is a member of the Mapping and Planetary Spatial Infrastructure Team (MAPSIT) that advises the NASA Planetary Science Advisory Committee of the PSDI priorities for the planetary science community.

(6) Cooperative Agreements - DOI Authority cited at 43 U.S.C. 1457b (not-for-profit organizations).

STATUTORY AUTHORITY

The statutory authorities read as follows:

TITLE 43 - PUBLIC LANDS

CHAPTER 2 - UNITED STATES GEOLOGICAL SURVEY

§ 36c. Acceptance of contributions from public and private sources; cooperation with other agencies in prosecution of projects In fiscal year 1987 and thereafter the United States Geological Survey is authorized to accept lands, buildings, equipment, and other contributions from public and private sources and to prosecute projects in cooperation with other agencies, Federal, State, or private.

(Pub. L. 99-500, § 101(h) [title I], Oct. 18, 1986, 100 Stat. 1783-242, 1783-252, and Pub. L. 99-591, §101(h) [title I], Oct. 30, 1986, 100 Stat. 3341-242, 3341-252; Pub. L. 102-154, title I, Nov. 13, 1991, 105 Stat. 1000.)

TITLE 43 - PUBLIC LANDS

CHAPTER 31 - DEPARTMENT OF THE INTERIOR

§ 1457b. Use of cooperative agreements

For fiscal year 2010, and each fiscal year thereafter, the Secretary of the Interior may enter into cooperative agreements with a State or political subdivision (including any agency thereof), or any not-for-profit organization if the agreement will:

- (1) serve a mutual interest of the parties to the agreement in carrying out the programs administered by the Department of the Interior; and
- (2) all parties will contribute resources to the accomplishment of these objectives. At the discretion of the Secretary, such agreements shall not be subject to a competitive process.

(Pub. L. 111-88, div. A, title I, § 112, Oct. 30, 2009, 123 Stat. 2928.)