

To: Theresa Romasko[tromasko@blm.gov]; Sean Stewart[s2stewar@blm.gov]; William (Allan) Bate[abate@blm.gov]
Cc: Matthew Betenson[mbetenso@blm.gov]
From: Backer, Dana
Sent: 2017-07-06T11:54:27-04:00
Importance: Normal
Subject: Fwd: Merit Review
Received: 2017-07-06T11:54:48-04:00
[Merit Review.zip](#)
[GRANT12438827 - SUU.zip](#)
[GRANT12440612 - USU.zip](#)
[SPI GSENM grazing research.docx](#)
[PO - Conflict of Interest blank.docx](#)

Hi Sean and Theresa,

Two applications were submitted to grants.gov for grazing utilization and harvest efficiency (see attached SPI for the project description). Allan is the PO but he is leaving for a fire today. Matt has tasked the three of us with completing the merit review.

I have downloaded all of the files in this drive/pathway/folder:

Z:\Science Program\Science 1\Research Projects\Range\GrazingUtilization HarvestEfficiency

We each need to complete a conflict of interest (attached) and complete an FA Evaluation Individual Scoring Worksheet for each of the two applications (in folder Merit Review).

I inquired about using additional criteria and the answer was no however, Melanie (GMO) said she was "fine with using a cost match as a tie breaker, but that is about the only thing we can change at this point in the process."

Please complete the review process by July 13th and return to me. Then lets schedule a call either July 14th or 17th. I am flexible. **Please let me know how this works with your schedule.**

Thanks.

Dana Backer
Science Program Administrator
Grand Staircase Escalante National Monument
Kanab, UT 84741
435-644-1257

----- Forwarded message -----

From: **Beckstead, Melanie** <mbeckstead@blm.gov>
Date: Wed, Jul 5, 2017 at 3:58 PM
Subject: Merit Review
To: Dana Backer <dbacker@blm.gov>

Dana,

Your grazing announcement has closed and we received 2 applications. I am attaching both, along with the paperwork you will need to do a merit review. Please select a certified Program Officer to be on this agreement until we can get you trained (please note that training will be Nov 14 and 15 at the Utah State Office in Salt Lake City.)

Your merit review committee will need to be comprised of 3 4 individuals. Each of these individuals will need to complete a conflict of interest. Each will also need to complete an FA Evaluation Individual Scoring Worksheet for each of the two applications. Once this is done, please compile your results in the State Office Ranking Sheet and send all paperwork back to me to make the award.

Please let me know if you have any questions. Please have all paperwork back to me NLT July 21.

Thanks,
Melanie

--

Melanie Beckstead

Grants Management Officer

BLM Utah State Office

(801) 539-4169 Phone

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

Previous Edition Usable

Authorized for Local Reproduction

Standard Form 424B (Rev. 7-97)
Prescribed by OMB Circular A-102

DOI-2021-03 00015

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE
Karen Wilson	Director of Sponsored Programs
APPLICANT ORGANIZATION	DATE SUBMITTED
Southern Utah University	06/27/2017

Standard Form 424B (Rev. 7-97) Back

Manifest for Grant Application # GRANT12438827

Grant Application XML file (total 1):

1. GrantApplication.xml. (size 16597 bytes)

Forms Included in Zip File(total 7):

1. Form GG LobbyingForm V1.1.pdf (size 23356 bytes)
2. Form ProjectNarrativeAttachments 1 2 V1.2.pdf (size 21554 bytes)
3. Form SF424 2 1 V2.1.pdf (size 30402 bytes)
4. Form BudgetNarrativeAttachments 1 2 V1.2.pdf (size 22530 bytes)
5. Form SF424A V1.0.pdf (size 29382 bytes)
6. Form Key Contacts V1.0.pdf (size 23158 bytes)
7. Form SF424B V1.1.pdf (size 28667 bytes)

Attachments Included in Zip File (total 5):

1. ProjectNarrativeAttachments 1 2 ProjectNarrativeAttachments 1 2 Attachments 1235 BLM Att A Violet.pdf application/pdf (size 451081 bytes)
2. SF424 2 1 SF424 2 1 1236 Areas Affected by Project.pdf application/pdf (size 300820 bytes)
3. BudgetNarrativeAttachments 1 2 BudgetNarrativeAttachments 1 2 Attachments 1234 BLM Att B Violet.pdf application/pdf (size 334163 bytes)
4. SF424 2 1 SF424 2 1 AdditionalProjectTitle 1237 FAletter72013.pdf application/pdf (size 222772 bytes)
5. SF424 2 1 SF424 2 1 AdditionalProjectTitle 1238 Randall Violet CV 2017.pdf application/pdf (size 525957 bytes)

Key Contacts Form

* Applicant Organization Name:

Southern Utah University

Enter the individual's role on the project (e.g., project manager, fiscal contact).

* Contact 1 Project Role: Grant Accountant

Prefix:

* First Name: Scott

Middle Name:

* Last Name: Carlile

Suffix:

Title: Grant Accountant

Organizational Affiliation:

* Street1: 351 W. University Blvd

Street2:

* City: Cedar City

County:

* State: UT: Utah

Province:

* Country: USA: UNITED STATES

* Zip / Postal Code: 84720 2415

* Telephone Number: 435 586 7729

Fax:

* Email: carlile@suu.edu



DEPARTMENT OF HEALTH AND HUMAN SERVICES

Program Support Center
Financial Management Service
Division of Cost Allocation

DCA Western Field Office
90 7th Street, Suite 4-600
San Francisco, CA 94103
PHONE: (415) 437-7820
FAX: (415) 437-7823
E-MAIL: dcasf@psu.hhs.gov

JUL 18 2013

Michael Beach
Controller
Southern Utah University
351 West Center
Cedar City, UT 84720

Dear Mr. Beach:

A copy of an Indirect cost Negotiation Agreement is attached. This Agreement reflects an understanding reached between your organization and a member of my staff concerning the rate(s) that may be used to support your claim for indirect costs on grants and contracts with the Federal Government. Please have the Agreement signed by a duly authorized representative of your organization and return it to me BY EMAIL OR FAX, retaining the copy for your files. We will reproduce and distribute the Agreement to the appropriate awarding organizations of the Federal Government for their use.

An indirect cost proposal together with required supporting information must be submitted to this office for each fiscal year in which your organization claims indirect costs under grants and contracts awarded by the Federal Government. Thus, your next proposal based on your fiscal year ending 06/30/16 is due in our office by 12/31/16.

Sincerely,

Arif Karim, Director
Division of Cost Allocation

Attachment

PLEASE SIGN AND RETURN THE NEGOTIATION AGREEMENT BY EMAIL OR FAX

COLLEGES AND UNIVERSITIES RATE AGREEMENT

EIN: 87-6000481

DATE: 07/11/2013

ORGANIZATION:

FILING REF.: The preceding
agreement was dated
05/11/2009Southern Utah University
351 West Center
Cedar City, UT 84720

The rates approved in this agreement are for use on grants, contracts and other agreements with the Federal Government, subject to the conditions in Section III.

SECTION I: Facilities And Administrative Cost Rates

RATE TYPES:	FIXED	FINAL	PROV. (PROVISIONAL)	PRED. (PREDETERMINED)
-------------	-------	-------	---------------------	-----------------------

EFFECTIVE PERIOD

<u>TYPE</u>	<u>FROM</u>	<u>TO</u>	<u>RATE(%)</u>	<u>LOCATION</u>	<u>APPLICABLE TO</u>
PRED.	07/01/2013	06/30/2017	45.00	On-Campus	All Programs
PRED.	07/01/2013	06/30/2017	19.80	Off-Campus	All Programs
PROV.	07/01/2017	06/30/2018	45.00	On-Campus	All Programs
PROV.	07/01/2017	06/30/2018	19.80	Off-Campus	All Programs

*BASE

Direct salaries and wages including all fringe benefits.

ORGANIZATION: Southern Utah University

AGREEMENT DATE: 7/11/2013

SECTION II: SPECIAL REMARKS

TREATMENT OF FRINGE BENEFITS:

The fringe benefits are specifically identified to each employee and are charged individually as direct costs. The directly claimed fringe benefits are listed below.

TREATMENT OF PAID ABSENCES

Vacation, holiday, sick leave pay and other paid absences are included in salaries and wages and are claimed on grants, contracts and other agreements as part of the normal cost for salaries and wages. Separate claims are not made for the cost of these paid absences.

OFF-CAMPUS DEFINITION: For all activities performed in facilities not owned by the institution and to which rent is directly allocated to the project(s) the off-campus rate will apply. Grants or contracts will not be subject to more than one F&A cost rate. If more than 50% of a project is performed off-campus, the off-campus rate will apply to the entire project.

DEFINITION OF EQUIPMENT

Equipment is defined as tangible nonexpendable personal property having a useful life of more than one year and an acquisition cost of \$1,000 or more per unit.

The following fringe benefits are treated as direct costs:
FICA, WORKERS COMPENSATION, AND HEALTH/LIFE/DENTAL INSURANCE.

ORGANIZATION: Southern Utah University

AGREEMENT DATE: 7/11/2013

SECTION III: GENERALA. LIMITATIONS

The rates in this Agreement are subject to any statutory or administrative limitations and apply to a given grant, contract or other agreement only to the extent that funds are available. Acceptance of the rates is subject to the following conditions: (1) Only costs incurred by the organization were included in its facilities and administrative cost pools as finally accepted; such costs are legal obligations of the organization and are allowable under the governing cost principles; (2) The same costs that have been treated as facilities and administrative costs are not claimed as direct costs; (3) Similar types of costs have been accorded consistent accounting treatment; and (4) The information provided by the organization which was used to establish the rates is not later found to be materially incomplete or inaccurate by the Federal Government. In such situations the rate(s) would be subject to renegotiation at the discretion of the Federal Government.

B. ACCOUNTING CHANGES

This Agreement is based on the accounting system purported by the organization to be in effect during the Agreement period. Changes to the method of accounting for costs which affect the amount of reimbursement resulting from the use of this Agreement require prior approval of the authorized representative of the cognizant agency. Such changes include, but are not limited to, changes in the charging of a particular type of cost from facilities and administrative to direct. Failure to obtain approval may result in cost disallowances.

C. FIXED RATES

If a fixed rate is in this Agreement, it is based on an estimate of the costs for the period covered by the rate. When the actual costs for this period are determined, an adjustment will be made to a rate of a future year(s) to compensate for the difference between the costs used to establish the fixed rate and actual costs.

D. USE BY OTHER FEDERAL AGENCIES

The rates in this Agreement were approved in accordance with the authority in Office of Management and Budget Circular A-21, and should be applied to grants, contracts and other agreements covered by this Circular, subject to any limitations in A above. The organization may provide copies of this Agreement to other Federal Agencies to give them early notification of the Agreement.

E. OTHER

If any Federal contract, grant or other agreement is reimbursing facilities and administrative costs by a means other than the approved rate(s) in this Agreement, the organization should (1) credit such costs to the affected programs, and (2) apply the approved rate(s) to the appropriate base to identify the proper amount of facilities and administrative costs allocable to these programs.

BY THE INSTITUTION:

Southern Utah University

(INSTITUTION)

(SIGNATURE)

Dorian Page

(NAME)

Vice Pres. for Finance & Admin

(TITLE)

7/18/13

(DATE)

ON BEHALF OF THE FEDERAL GOVERNMENT:

DEPARTMENT OF HEALTH AND HUMAN SERVICES

(AGENCY)

(SIGNATURE)

Arif Karim

(NAME)

Director

(TITLE)

7/11/2013

(DATE) 1102

HHS REPRESENTATIVE:

Karen Wong

Telephone:

(415) 437-7820

BUREAU OF LAND MANAGEMENT
Financial Assistance (Cooperative Agreements)

PROJECT PROPOSAL

(Suggested Format)

Instructions: A Project Proposal must be submitted with the Standard Form (SF) 424 Application for Federal Assistance for all BLM Assistance Agreements. Complete each section below. Use additional sheets as needed.

Person Submitting Proposal: Randall Violet, PhD

Organization Name: Southern Utah University

Agreement or Announcement No.: L17AS00088

Scientific Study to Employ GPS Technology to Understand
Agreement or Announcement Title: Livestock Distribution, Grazing Practices and Statistical
Analysis of Rangeland Data

Estimated Period of Performance: 8/1/2017 – 7/31/2022

Proposed Project Location: Grand Staircase Escalante National Monument

This work will occur on: ☒ Public Lands ☐ Private Lands ☐ Both Public & Private Lands

YOUR MISSION:

(Describe your mission. Describe why this support is being requested.)

To assemble baseline data regarding livestock distribution and utilization in regards to slope and vegetation type within the Grand Staircase Escalante National Monument (GSENM) of southwestern Utah. Additionally, in alignment with Southern Utah University's mission, provide an experiential learning opportunity for undergraduate students within the Range Management curriculum.

OBJECTIVE:

(Describe your objectives and how these objectives support your mission.)

Our objectives fall into two categories. First, are the scientific objectives which are based on those stated in the project funding announcement and include the following: 1) implement field study, initiate data collection on cattle movement and terrain utilization, and forage availability and utilization, 2) gathering data related to the use and movement of cattle based on the restoration treatments within the GSENM, 3) gathering data which will better enable us to understand the basic needs of cattle and how to match those needs with time and timing of grazing utilization. Our second category of objectives is specific to undergraduate student research. We hope to provide the following for our students: 1) experience conducting a field-based project with real world application, 2) develop skills with technology such as GPS and GIS platforms, 3) an opportunity to better understand the diverse habitats of southern Utah, and 4) an increased understanding of the multidisciplinary nature of land/resource management. Support of the mission through these objectives is manifold. The scientific objectives will allow us to better understand the how and where cattle graze on the GSENM. These data will then be used in support of the BLM's mission of managing multiple use of public lands. While the data to be collected will focus on cattle and the vegetation they graze upon, it will serve as indicators of ecosystem health and disturbance, and will consequently be useful in mitigating risk associated with climate change, habitat alteration, fire, invasive species, and vegetation treatment. The student learning objectives will hopefully serve to help recruit the next generation of land/resource managers, while providing these students with a rich experience engaged in field-based research.



[Attachment B]

Budget Detail

Page 2

TECHNICAL APPROACH:

(Describe the details of the project, the procedures to be used, how data will be collected, analyzed, and interpreted, etc. Discuss expected goals and outcomes and how project effectiveness will be measured and evaluated. Include a detailed project work plan narrative and a table such as below to summarize the project schedule.)

There will be two main components to the proposed project; 1) equipping cattle with GPS collars that will track their movement every 15 minutes, 2) compile the GPS tracking data with vegetation, topography and water location data.

GPS collars - There is a wealth of information already published on the proper procedures of tracking the movement of cattle. The procedure adopted for this project has been published in the Journal of Applied Animal Behavior Science, by Ganskopp and Bohnert, of Oregon State University. The most important issue in tracking cattle is to have access to conditioned cattle. Meaning cattle that know the area and have been in the pasture before. To identify a permittee that is willing to cooperate with this project will be of the utmost importance. With past work conducted in the area the P.I. is confident that a permittee can be acquired.

Vegetation surveys and monitoring- Conducting and using existing vegetation survey data, maps will be generated that will show cattle utilization in relationship to vegetation quality and quantity. Much of this map creation can be accomplished during the school year when students can incorporate this data into their GPS course work. During the field season a student will be employed to assist in collection and monitoring of vegetation data. This monitoring would allow us to begin to understand differences which may exist within these distinct plant communities and the potential effect of the vegetation restoration treatment on cattle grazing.

Milestone / Task / Activity	Start Date	Completion Date
Order GPS equipment and test function on cattle	1 August 2017	1 September 2017
Fit collars on cows and turn out cows on pasture	1 September 2017	31 August 2021
Collect vegetation data	1 September 2017	1 December 2021
Compilation of final data	1 December 2021	1 February 2022
Publication and dissemination of results	1 February 2022	31 July 2022

PUBLIC BENEFIT:

(Describe how this project benefits the general public.)

The benefit of the proposed project would be a greater understanding of the effect of cattle grazing on the GSENM. This in turn will lead to more informed management decisions regarding resource use on the monument. Additionally, at a time when grazing livestock on public land is somewhat controversial this project will provide scientific data for the agency to use for the management of livestock.

QUALIFICATIONS & PAST PERFORMANCE:

(List key personnel and their responsibilities. Describe similar successful projects completed in the past and any unique qualifications your organization may possess.)

The PI for this project, Dr. Randall Violet, worked as a research associate for six years before gaining employment at SUU. During his tenure as a research associate he conducted research on invasive weeds and agronomic crops. While doing this research he became accustomed to working with GPS and GIS platforms. Since joining the faculty at SUU Dr. Violet has toured the GSENM several times and consulted Kane county commissioners on the EIS for grazing. Dr. Violet also holds an Animal Science Degree from Montana State University and has used this background in developing curriculum that deals with animals and rangeland interactions. He has become recognized for this work and has presented several workshops on how ungulate animals use rangelands. Dr. Violet wrote a grant and secured funding to acquire a cannulated cow for his course he developed titled, "Range/Ungulate Animal Interactions". Because of Southern Utah University's proximity to the study area, the PI's research expertise, and SUU's track record of work with the BLM and other land management agencies, we are particularly well poised to tackle this project in a timely, meaningful and cost-effective manner.



BUDGET DETAIL

(Suggested Format)

Instructions: Using the estimated amounts listed on your SF 424A Budget Information form, use this worksheet to provide details of those estimated costs. In the Narrative Boxes, explain the purpose of each cost and provide sufficient detail so costs may be analyzed for reasonableness.

Agreement or Funding Opportunity No.: L17AS00088

Organization Name: Southern Utah University

Project Title:	Scientific Study to Employ GPS Technology to Understand Livestock Distribution, Grazing Practices and Statistical Analysis of Rangeland Data
----------------	--

A) PERSONNEL COSTS (SF-424A Object Class Category 6a.) Estimated costs of salaries/wages, not including fringe benefits, paid to Recipient employees working directly on this agreement. Indicate Key Personnel with an asterisk (*), provide more detail in the Narrative Box if needed.					
Name & Title or Position Title	Salary or Wage	Months or Hours	Matching Funds (if applicable)	BLM Funds	
Randall Violet	\$56,696/yr	1			\$6,300
Student Interns (2)	\$10/hr	390			\$3,900
<i>Example: James Smith, Executive Director</i>	\$20,000.00/Mo.	3 Mos.	\$15,000.00		\$45,000.00
(A) TOTAL PERSONNEL COSTS:					
(SF 424A Object Class Category 6a. Personnel)				\$	\$10,200

Narrative: Mr. Violet will coordinate the entire project between BLM personnel and SUV personnel and will direct all activities from the data collection, analysis and reporting. The student interns will perform the data analysis under the direction of Mr. Violet.

Budget Detail

Page 2

B) FRINGE BENEFIT COSTS (SF-424A Object Class Category 6b.)

Estimated costs of fringe benefits (e.g. health insurance, vacation, FICA, etc.) paid to Recipient employees working on this agreement. List employees/positions below, and their fringe benefit rates as a percentage (%) of their salaries. List what are considered fringe benefits in the Narrative Box.

Name & Title/Position	Salary/Wage Base (BLM Amounts budgeted in Section A above)	Fringe Benefit Rate (%)	Matching Funds (if applicable)	BLM Funds
Randall Violet	\$6,300	22.5%		\$1,417
Student Interns (2)	\$3,900	10.5%		\$410
<i>Example: James Smith, Executive Director</i>	<i>\$20,000.00</i>	<i>30%</i>	<i>\$0.00</i>	<i>\$6,000.00</i>
B) TOTAL FRINGE BENEFIT COSTS: (SF 424A Object Class Category 6b. Fringe Benefits)			\$	\$1,827
<p><u>Narrative:</u> The summer month's benefit rate for SUU faculty (Violet) is 22.5% and includes Workman's Compensation, FICA, Social Security, taxes and retirement contribution. The benefit rate for hourly workers (interns) is 10.5% of wages and includes Workmans' Compensation, FICA, Social Security and taxes.</p>				

Budget Detail

Page 3

C) TRAVEL COSTS (SF-424A Object Class Category 6c.)

SUB TOTAL, LODGING & PER DIEM The cost of lodging & meals while traveling for agreement activities. Give details and purpose of the travel in the Narrative Box. Current Federal rates may be found online at: <http://www.gsa.gov/portal/category/21287>.

Proposed Travel (Lodging & Per Diem)		No. of People	No. of Days	Cost Per Person Per Day	Matching Funds (if applicable)	BLM Funds
To:	Escalante, UT	1	20	41		\$820
From:	Cedar City, UT					
To:						
From:						
To:						
From:						
To:	Example: Portland, OR	1	2	\$150.00/ Day	\$100.00	\$200.00
From:	Eugene, OR					

SUB TOTAL, MILEAGE REIMBURSEMENT The cost of reimbursement for estimated mileage traveled in recipient vehicles for agreement activities. Give details and the purpose of the travel in the Narrative Box. Current Federal mileage reimbursement rates may be found online at: www.GSA.gov. **NOTE:** Mileage reimbursement rates include all vehicle costs, i.e. fuel, insurance, maintenance, etc.

Proposed Travel (Mileage Reimbursement)		No. of Miles	No. of Trips	Cost Per Mile	Matching Funds (if applicable)	BLM Funds
To:	Escalante, UT	242	10	.41		\$992
From:	Cedar City, UT					
To:						
From:						
To:						
From:						
To:	Example: Portland, OR	110 Miles	2	\$0.10/ Mile	\$0.00	\$22.00
From:	Eugene, OR					

SUB TOTAL, OTHER TRAVEL COSTS The costs of airfare, bus fare, car rental, etc., required for agreement activities. Explain the details and the purpose of the costs in the Narrative Box.

Proposed Other (Travel Reimbursement)		Type	Cost	No.	Matching Funds (if applicable)	BLM Funds
To:						
From:						
To:						
From:						
To:						
From:						

C) TOTAL TRAVEL COSTS:

(SF 424A Object Class Category 6c. Travel)

\$ **\$1,812**

Narrative: PI, Violet will make 10 trips in the first year to Escalante to collar cattle, set up and realign sensor equipment, take data readings and monitor cattle as described in the scope of work.

Budget Detail

Page 4

D) EQUIPMENT COSTS (SF-424A Object Class Category 6d. Equipment)

The cost of equipment purchased for use on this agreement. Equipment is defined as items with a useful life of more than one (1) year and a cost of \$5,000+ per unit. If your organization has a written policy for purchasing equipment, please submit a copy with your application. Explain the need and purpose of the equipment in the Narrative Box below.

Equipment	Quantity	Cost per Unit	Matching Funds (if applicable)	BLM Funds
<i>Example: John Deere Compact Tractor</i>	1	\$17,500.00	\$7,500.00	\$10,000.00

D) TOTAL EQUIPMENT COSTS:

(SF 424A Object Class Category 6d. Equipment)

\$

\$

Narrative: No capital equipment costs will be needed for the project.

E) SUPPLY COSTS (SF-424A Object Class Category 6e. Supplies)

Estimated costs of materials and supplies used directly on this agreement, e.g. safety glasses, work gloves, office supplies, etc. If your organization has a written policy for purchasing supplies, please submit a copy with your application. Explain the purpose of the costs in the Narrative Box below.

Item	Quantity	Cost per Unit	Matching Funds (if applicable)	BLM Funds
Transmitter collars and receivers	3	3000		\$9,000
Safety equipment (hat, gloves, plyers, sunscreen)	1	26		\$26
Portable flash drives	3	10		\$30
<i>Example: Work Gloves, Leather</i>	6	\$10.00/Pair	\$50.00	\$10.00

E) SUPPLY COST TOTAL:

(SF 424A Object Class Category 6e. Supplies)

\$

\$9,056

Narrative: Three transmitter/receiver collars will be purchased for the cattle at \$3000 per unit, (\$9,000). Personal safety equipment for working with the cattle on the Grand Staircase National Monument will include a hatt, gloves, plyers and sunscreen, (26). Three portable flash drives will be purchased to use and transport data between the field and lab, (\$30).

Budget Detail

Page 5

F) CONTRACTUAL COSTS (SF-424A Object Class Category 6f. Contractual)

Estimated costs of contracted/sub contracted services and sub grant/recipient awards. If your organization has a written contracting policy, please submit a copy with your application. Provide contractor names, if available, and explain the details and purposes of the costs in the Narrative Box below. **NOTE:** Calculation of your Indirect Costs may be affected by contracted and/or pass through expenses. See Section J) INDIRECT COSTS, for more information.

Contractor Name, Type, etc.	Cost	Matching Funds (if applicable)	BLM Funds
<i>Example: Ace Delivery Service (Yearly Contract)</i>	\$2,500.00	\$0.00	\$2,500.00
F) CONTRACTUAL COST TOTAL: (SF 424A Object Class Category 6f. Contractual)		\$	\$

Narrative: No contractual costs will be necessary for the project.

G) CONSTRUCTION COSTS (SF-424A Object Class Category 6g. Construction)

The estimated costs of construction. "Construction" is the intent to construct, alter, or repair (including dredging, excavating, and painting) buildings, structures, or other real property FAR Part 2 Definitions. Explain the details and purpose of the costs in the Narrative Box below.

Contractor: Name/Type/Organization/Etc.	Cost	Matching Funds (if applicable)	BLM Funds
G) CONSTRUCTION COST TOTAL: (SF 424A Object Class Category 6g. Construction)		\$	\$

Narrative: No construction costs will be necessary for the project.

Budget Detail

Page 6

H) OTHER COSTS (SF-424A Object Class Category 6h. Other)

Estimated costs which don't fit any other Object Class Category, e.g. duplicating and printing costs, postage and freight, rental of equipment, etc. Explain the details and purpose of the costs in the Narrative Box below.

Item	Cost	Matching Funds (if applicable)	BLM Funds
<i>Example: Ace Equipment Rental (Post-Hole Digger, 4 Days)</i>	<i>\$25/Day</i>	<i>\$0.00</i>	<i>\$100.00</i>
H) OTHER COSTS TOTAL: (SF 424A Object Class Category 6h. Other)		\$	\$
<u>Narrative:</u> No other costs will be necessary for the project.			

D) TOTAL DIRECT COSTS (SF-424A Object Class Category 6i. Sum of 6a.-6h.)

The total of all direct costs applicable to this project.

Total Direct Costs	Matching Funds (if applicable)	BLM Funds
D) TOTAL DIRECT COSTS: (SF 424A Object Class Category 6i. Total, Sum of 6a. 6h.)	\$	\$22,895

Budget Detail

Page 7

J) INDIRECT COSTS (SF-424A Object Class Category 6j. Indirect Charges)

Indirect costs are expenses which cannot be readily identified and charged to a particular project or agreement, e.g. building rent, utilities, office supplies, etc. Such costs are charged to the project as a percentage of the Direct Costs (items A through H above) and this percentage is called the Indirect Cost Rate. If your organization has a Negotiated Indirect Cost Rate Agreement (NICRA) please submit a copy of the agreement with your application. If your organization has no NICRA, the BLM may allow a "de minimis" indirect cost rate of up to 10% of your Modified Total Direct Costs (MTDC), which are your Direct Costs excluding sub grant and sub contract costs in excess of \$25,000. See **2 CFR 200.68 Modified Total Direct Cost (MTDC)** and **2 CFR 200.414(f) Indirect (F&A) Costs** for more information.

If your organization is a Cooperative Ecosystems Studies Unit (CESU) partner, your indirect cost rate will be 17.5% of your NICRA determined indirect cost base.

Use the Narrative Box below to explain how you calculated your indirect cost base and resulting indirect costs.

Indirect Cost Rate to be used on this Grant (%):	17.5%	
Indirect Cost Base for this Grant:	\$12,027 (salaries, wages and benefits)	
Total Indirect Costs	Matching Funds (if applicable)	BLM Funds
J) TOTAL INDIRECT COSTS: (SF 424A Object Class Category 6j. Indirect Charges)	\$	\$2,105
<u>Narrative:</u>		

K) TOTALS (SF-424A Object Class Category 6k. TOTALS)

The sum total of all Direct and Indirect Costs (Sum of 6i. & 6j.) applicable to this agreement.

Total Project Costs	Matching Funds (if applicable)	BLM Funds
K) TOTAL COSTS: (SF 424A Object Class Category 6k. TOTALS)	\$	\$25,000

I certify that to the best of my knowledge the costs detailed above are correct and complete and for the purposes set forth in the associated application for Federal Assistance.

Karen Wilson, Preaward Administrator

Name & Title of Person Completing Budget

Rev 4/2016

BUREAU OF LAND MANAGEMENT
Utah State Office
Grants & Cooperative Agreements



CONFLICT OF INTEREST NON-DISCLOSURE CERTIFICATE

Agreement or Funding
Opportunity Number: _____

Project Title: _____

I certify that I am not aware of any matter which might reduce my ability to participate in the proposal evaluation proceedings and activities associated with the above funding opportunity, or modification to existing agreement, in an objective and unbiased manner or which might place me in a position of conflict, real or apparent, between my responsibilities as an evaluator or advisor and other interests.

In making this certification, I have considered all my stocks, bonds, other financial interests, outside business associates, and employment arrangements (past, present, or under consideration) and, to the extent known by me, all the financial interests and employment arrangements of my spouse, my minor children, and other members of my immediate household.

I will notify the Grants Management Officer, if any person, firm, or organization submits a proposal or otherwise becomes involved in the subject project, if to my knowledge, I (including my spouse, minor children, other members of my immediate household) have a financial interest, or with which I have or am actually considering an employment arrangement. Further, based on advice from the servicing ethics counselor, I will agree not to participate further in any way (e.g., by rendering advice, making recommendations, scoring proposals, or otherwise in the particular subject matter or project).

I have also read and understand the Federal Employee Non-Disclosure Statement.

Signature

Date

Printed Name

NOTE: This certification must be completed prior to initial award and with each subsequent modification when additional funds are awarded.

THIS CERTIFICATION CONTAINS A MATTER WITHIN THE JURISDICTION OF AN AGENCY OF THE UNITED STATES AND THE MAKING OF A FALSE, FICTITIOUS, OR FRAUDULENT CERTIFICATION MAY RENDER THE MAKER SUBJECT TO PROSECUTION UNDER TITLE 18, UNITED STATES CODE, SECTION 1001.

FEDERAL EMPLOYEE NON-DISCLOSURE STATEMENT

The proper treatment of official information related to the financial assistance process (requirement definition, validation, evaluation, selection proceedings, negotiations, etc.) is of the utmost importance.

An employee may not directly or indirectly use or allow the use of official information obtained through or in connection with his Government employment. Attention is invited to the provisions of 43 CFR Part 12 - Administrative and Audit Requirements and Cost Principals for Assistance Programs.

Title 18 U.S.C. 201 prescribes specific penalties for a Government official accepting, or anyone directly or indirectly promising to a Government official, anything of value with intent to influence an official act or otherwise influence the Government official.

U.S.C. Title 18, Sec. 1905, states: "Whoever, being an officer or employee of the United States or any department or agency thereof, ..., publishes, divulges, discloses, or makes known in any manner or to any extent not authorized by law any information coming to him in the course of his employment or official duties or by reason of any examination or investigation made by, or return, report or record made to or filed with, such department or agency or officer or employee thereof, which information concerns or relates to the trade secrets, processes, operations, style of work, or apparatus, or to the identity, confidential statistical data, amount or source of any income, profits, losses, or expenditures of any person, firm, partnership, corporation, or association; or permits any income return or copy thereof or any book containing any abstract or particulars thereof to be seen or examined by any person except as provided by law, shall be fined not more than \$1,000 or imprisoned not more than one year; or both; and shall be removed from office or employment."

Title 18 U.S.C. 207 restricts the participation of former Government officers and employees with regard to any matter in which participation has been personal and substantial.

Employees shall not reveal any information to anyone who is not also participating in the same activities, and then only to the extent that such information is required in connection with such activities. Such information is classified "FOR OFFICIAL USE ONLY". The dissemination of information in this category to other parties will be at the sole discretion of the Grants Management Officer. Request for Application information, Technical Evaluation Panel members, applicants proposals, proposal evaluation information and documents, and similar materials will be handled and discussed on a need-to-know basis only. Under no circumstances may application information, proposals, evaluation information, or selection criteria or plans be removed from the confines of the technical evaluation meeting area without the specific authorization of the Grants Management Officer. In this regard, the methodology used or planned for use in evaluating and selecting recipients will not be discussed or otherwise disclosed except on a "need-to-know" basis established by the Grants Management Officer on a case-by-case basis.

Any unauthorized disclosures contrary to the foregoing provisions may result in appropriate disciplinary action pursuant to applicable statutory provision.

[Attachment B]

BUREAU OF LAND MANAGEMENT
Financial Assistance (Cooperative Agreements)



BUDGET DETAIL

(Suggested Format)

Instructions: Using the estimated amounts listed on your SF 424A Budget Information form, use this worksheet to provide details of those estimated costs. In the Narrative Boxes, explain the purpose of each cost and provide sufficient detail so costs may be analyzed for reasonableness.

Agreement or Funding Opportunity No.: L17AS00088 Date: 06/26/17

Organization Name: Utah State University

Project Title: Scientific Study to Employ GPS Technology to Understand Livestock Distribution, Grazing Practices, and Statistical Analysis of Rangeland Data

A) PERSONNEL COSTS (SF-424A Object Class Category 6a.)

Estimated costs of salaries/wages, not including fringe benefits, paid to Recipient employees working directly on this agreement. Indicate Key Personnel with an asterisk (*), provide more detail in the Narrative Box if needed.

Name & Title or Position Title	Salary or Wage	Months or Hours	Matching Funds (if applicable)	BLM Funds
MS Graduate Student	\$1,500/Mo.	12 Mos.	**	17,042.50
<i>Example: James Smith, Executive Director</i>	<i>\$20,000.00/Mo.</i>	<i>3 Mos.</i>	<i>\$15,000.00</i>	<i>\$45,000.00</i>
A) TOTAL PERSONNEL COSTS: (SF 424A Object Class Category 6a. Personnel)			\$	\$17,042.50

Narrative:

This funding will provide one graduate student for a year. Utah State University and Utah Agriculture Experiment Station will provide technical support and any additional funding shortfalls in order to meet the goals and objectives of this project.

Budget Detail

Page 2

B) FRINGE BENEFIT COSTS (SF-424A Object Class Category 6b.)

Estimated costs of fringe benefits (e.g. health insurance, vacation, FICA, etc.) paid to Recipient employees working on this agreement. List employees/positions below, and their fringe benefit rates as a percentage (%) of their salaries. List what are considered fringe benefits in the Narrative Box.

Name & Title/Position	Salary/Wage Base (BLM Amounts budgeted in Section A above)	Fringe Benefit Rate (%)	Matching Funds (if applicable)	BLM Funds
MS Graduate Student	\$18,000	0.80		\$1,367.78
<i>Example: James Smith, Executive Director</i>	<i>\$20,000.00</i>	<i>30%</i>	<i>\$0.00</i>	<i>\$6,000.00</i>
B) TOTAL FRINGE BENEFIT COSTS: (SF 424A Object Class Category 6b. Fringe Benefits)			\$	\$1,367.78
<u>Narrative:</u> Utah State Univesity benefits for students is 0.8% of their salary.				

Budget Detail

Page 3

C) TRAVEL COSTS (SF-424A Object Class Category 6c.)

SUB TOTAL, LODGING & PER DIEM The cost of lodging & meals while traveling for agreement activities. Give details and purpose of the travel in the Narrative Box. Current Federal rates may be found online at: <http://www.gsa.gov/portal/category/21287>.

Proposed Travel (Lodging & Per Diem)		No. of People	No. of Days	Cost Per Person Per Day	Matching Funds (if applicable)	BLM Funds
To:	GSENM Field Data Collection	2	9	\$51/day		\$918.00
From:	Logan, Utah					
To:	Lodging, Kanab	1	9	\$75/day		\$675.00
From:	Logan					
To:						
From:						
To:	Example: Portland, OR	1	2	\$150.00/ Day	\$100.00	\$200.00
From:	Eugene, OR					

SUB TOTAL, MILEAGE REIMBURSEMENT The cost of reimbursement for estimated mileage traveled in recipient vehicles for agreement activities. Give details and the purpose of the travel in the Narrative Box. Current Federal mileage reimbursement rates may be found online at: www.GSA.gov. **NOTE:** Mileage reimbursement rates include all vehicle costs, i.e. fuel, insurance, maintenance, etc.

Proposed Travel (Mileage Reimbursement)		No. of Miles	No. of Trips	Cost Per Mile	Matching Funds (if applicable)	BLM Funds
To:	GSENM Field Data Collection	775	2	\$0.535/ mile		\$847.44
From:	Logan, Utah					
To:						
From:						
To:						
From:						
To:	Example: Portland, OR	110 Miles	2	\$0.10/ Mile	\$0.00	\$22.00
From:	Eugene, OR					

SUB TOTAL, OTHER TRAVEL COSTS The costs of airfare, bus fare, car rental, etc., required for agreement activities. Explain the details and the purpose of the costs in the Narrative Box.

Proposed Other (Travel Reimbursement)		Type	Cost	No.	Matching Funds (if applicable)	BLM Funds
To:						
From:						
To:						
From:						
To:						
From:						

C) TOTAL TRAVEL COSTS:

(SF 424A Object Class Category 6c. Travel)

\$ 2,440.44

Narrative:

Travel distance from Logan to the GSENM is significant. Utah State/Utah Agriculture Experiment Station will provide additional funding if needed for travel to and from the GSENM.

Budget Detail

Page 4

D) EQUIPMENT COSTS (SF-424A Object Class Category 6d. Equipment)

The cost of equipment purchased for use on this agreement. Equipment is defined as items with a useful life of more than one (1) year and a cost of \$5,000+ per unit. If your organization has a written policy for purchasing equipment, please submit a copy with your application. Explain the need and purpose of the equipment in the Narrative Box below.

Equipment	Quantity	Cost per Unit	Matching Funds (if applicable)	BLM Funds

Example: John Deere Compact Tractor	1	\$17,500.00	\$7,500.00	\$10,000.00

D) TOTAL EQUIPMENT COSTS:

(SF 424A Object Class Category 6d. Equipment)

\$

\$

Narrative:

***Equipment will be provided from Utah State University and Utah Agriculture Experiment Station.

E) SUPPLY COSTS (SF-424A Object Class Category 6e. Supplies)

Estimated costs of materials and supplies used directly on this agreement, e.g. safety glasses, work gloves, office supplies, etc. If your organization has a written policy for purchasing supplies, please submit a copy with your application. Explain the purpose of the costs in the Narrative Box below.

Item	Quantity	Cost per Unit	Matching Funds (if applicable)	BLM Funds

Example: Work Gloves, Leather	6	\$10.00/Pair	\$50.00	\$10.00

E) SUPPLY COST TOTAL:

(SF 424A Object Class Category 6e. Supplies)

\$

\$

Narrative:

***Supplies will be provided from Utah State University and Utah Agriculture Experiment Station funding.

Budget Detail

Page 5

F) CONTRACTUAL COSTS (SF-424A Object Class Category 6f. Contractual)

Estimated costs of contracted/sub contracted services and sub grant/recipient awards. If your organization has a written contracting policy, please submit a copy with your application. Provide contractor names, if available, and explain the details and purposes of the costs in the Narrative Box below. **NOTE:** Calculation of your Indirect Costs may be affected by contracted and/or pass through expenses. See Section J) INDIRECT COSTS, for more information.

Contractor Name, Type, etc.	Cost	Matching Funds (if applicable)	BLM Funds
<i>Example: Ace Delivery Service (Yearly Contract)</i>	\$2,500.00	\$0.00	\$2,500.00

F) CONTRACTUAL COST TOTAL:

(SF 424A Object Class Category 6f. Contractual)

\$

\$

Narrative:**G) CONSTRUCTION COSTS** (SF-424A Object Class Category 6g. Construction)

The estimated costs of construction. "Construction" is the intent to construct, alter, or repair (including dredging, excavating, and painting) buildings, structures, or other real property FAR Part 2 Definitions. Explain the details and purpose of the costs in the Narrative Box below.

Contractor: Name/Type/Organization/Etc.	Cost	Matching Funds (if applicable)	BLM Funds

G) CONSTRUCTION COST TOTAL:

(SF 424A Object Class Category 6g. Construction)

\$

\$

Narrative:

Budget Detail

Page 6

H) OTHER COSTS (SF-424A Object Class Category 6h. Other)

Estimated costs which don't fit any other Object Class Category, e.g. duplicating and printing costs, postage and freight, rental of equipment, etc. Explain the details and purpose of the costs in the Narrative Box below.

Item	Cost	Matching Funds (if applicable)	BLM Funds
<i>Example: Ace Equipment Rental (Post-Hole Digger, 4 Days)</i>	<i>\$25/Day</i>	<i>\$0.00</i>	<i>\$100.00</i>
H) OTHER COSTS TOTAL: (SF 424A Object Class Category 6h. Other)		\$	\$
<u>Narrative:</u>			

I) TOTAL DIRECT COSTS (SF-424A Object Class Category 6i. Sum of 6a.-6h.)

The total of all direct costs applicable to this project.

Total Direct Costs	Matching Funds (if applicable)	BLM Funds
I) TOTAL DIRECT COSTS: (SF 424A Object Class Category 6i. Total, Sum of 6a. 6h.)	\$	\$20,850.72

J) INDIRECT COSTS (SF-424A Object Class Category 6j. Indirect Charges)

Indirect costs are expenses which cannot be readily identified and charged to a particular project or agreement, e.g. building rent, utilities, office supplies, etc. Such costs are charged to the project as a percentage of the Direct Costs (items A through H above) and this percentage is called the Indirect Cost Rate. If your organization has a Negotiated Indirect Cost Rate Agreement (NICRA) please submit a copy of the agreement with your application. If your organization has no NICRA, the BLM may allow a "de minimis" indirect cost rate of up to 10% of your Modified Total Direct Costs (MTDC), which are your Direct Costs excluding sub grant and sub contract costs in excess of \$25,000. See 2 CFR 200.68 Modified Total Direct Cost (MTDC) and 2 CFR 200.414(f) Indirect (F&A) Costs for more information.

If your organization is a Cooperative Ecosystems Studies Unit (CESU) partner, your indirect cost rate will be 17.5% of your NICRA determined indirect cost base.

Use the Narrative Box below to explain how you calculated your indirect cost base and resulting indirect costs.

Indirect Cost Rate to be used on this Grant (%):	17.5		
Indirect Cost Base for this Grant:	\$20,584.44		
Total Indirect Costs	Matching Funds (if applicable)	BLM Funds	
J) TOTAL INDIRECT COSTS: (SF 424A Object Class Category 6j. Indirect Charges)	\$	\$3,648.88	
<u>Narrative:</u> Indirect Costs were calculated at the 17.5% for a Cooperative Ecosystem Studies Unit partner.			

K) TOTALS (SF-424A Object Class Category 6k. TOTALS)

The sum total of all Direct and Indirect Costs (Sum of 6i. & 6j.) applicable to this agreement.

Total Project Costs	Matching Funds (if applicable)	BLM Funds
K) TOTAL COSTS: (SF 424A Object Class Category 6k. TOTALS)	\$	\$24,499.60

I certify that to the best of my knowledge the costs detailed above are correct and complete and for the purposes set forth in the associated application for Federal Assistance.

Kevin Heaton – Principle Investigator

Name & Title of Person Completing Budget

Rev 4/2016

CERTIFICATION REGARDING LOBBYING**Certification for Contracts, Grants, Loans, and Cooperative Agreements**

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

* APPLICANT'S ORGANIZATION	
Southern Utah University	
* PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE	
Prefix: <input type="text"/>	* First Name: <input type="text" value="Julia"/> Middle Name: <input type="text"/>
* Last Name: <input type="text" value="Anderson"/>	Suffix: <input type="text"/>
* Title: <input type="text" value="Director of Sponsored Programs"/>	
* SIGNATURE: <input type="text" value="Karen Wilson"/>	* DATE: <input type="text" value="06/27/2017"/>

Randall Violet, Ph.D. Assistant Professor

Education:

2012 Ph.D. Agronomy, University of Wyoming
1996 Masters of Science, Ag Ed. Montana State University
1986 Bachelor of Science, An Sc. Montana State University
1985 Bachelor of Science, Ag Ed. Montana State University

Professional workshops

BLM Rangeland Health Assessment, Saint George, UT- 2012
Nuclear Gauge Safety Training, Raleigh, NC - 2010
Irrigation Management Home Study Course, UNL - 2009
Wyoming Pesticide Applicator License Training, Laramie, WY- 2005
Pasture Management School, Logan, UT- 2002

Professional Presentations:

Randall Violet, Oral presentation “Aspen (*Populus tremuloides*) restoration utilizing nursery-propagated seedlings” Cody, WY Society for Range Management, November 15-17, 2016

Violet, R.D. 2016. Developing Innovative Student Projects for Comprehensive Course Review. NACTA Journal.Vol.60, University of Hawaii, Manoa. June 21-24, 2016

Seth Jones, Jason Carlile, Lee Simper, Nathan Dulfon, and Randall Violet (Mentor), Society for Range Management, Range Cup Poster, *Effects of Smooth Brome on Sudden Aspen Decline*, Orlando, FL. February 8-12, 2014.

Randall Violet*, Chad Reid, and Dean Winward, Western Society of Weed Science, oral presentation, *Rubber Rabbitbrush control Using a Combination of Mowing and Various Herbicide Treatments*, Volume 67, Colorado Springs, CO. March 10-12, 2014.

Randall Violet, 60th North America Colleges & Teachers of Agriculture Conference, presenter of oral paper, *Creatively Implementing Experiential Learning into the General Education Curriculum*, Bozeman MT, June 25-28, 2014.

Violet, Randall (2011). “Sugar Beet Research Results from 2010 Projects” Presenter, Western Sugar Company Research Committee Meeting. Casper, WY.

Violet, Randall (2011). “Production of Confection Sunflower in Wyoming” Workshop Presenter, Wyoming Weed Management Association Rendezvous. Casper, WY.

Violet, Randall (2010). “Foxtail Barley Ecology and Control.” Presenter, Montana Agri-Business Association, Great Falls, MT.

Funded Grants

STEM grant for summer Range Camp 2016-2017- \$6,200.00
Paraprofessional grant from University College -\$4,500.00
FSSF grant for travel to NACTA conference- \$1,550.00

Refereed Publications and/or Books

W. B. Stevens, R. D. Violett, S. Skalsky & A. O. Mesbah (2008) "Response of Eight Sugarbeet Varieties to Increasing Nitrogen Application: I. Root, Sucrose and Top Yield." Journal of Sugarbeet Research 45:65-83.

R.D. Violett and A.O. Mesbah (2008) "Scientists Try to Outfox Foxtail Barley in Irrigated Pastures." University of Wyoming College of Agriculture Reflections Magazine.

Major awards, committees and professional involvement

Outstanding Faculty Member, College of Science and Engineering - 2016

Gamma Sigma Delta Honor Society, 2006

Kiwanis International "Award of Valor" award winner, 2006

Membership in academic, professional and scholarly societies

Society for Range Management - Life member

Western Society of Weed Science

Hi-Plains Conservation Association

North American College Teachers of Agriculture (NACTA) – Life member

Montana Vocational Agriculture Teachers Association- Past President

National Vocational Agriculture Teachers Association- Life member

Application for Federal Assistance SF-424		
<div> <div> * 1. Type of Submission: <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application </div> <div> * 2. Type of Application: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision </div> <div> * If Revision, select appropriate letter(s): <input type="text"/> * Other (Specify): <input type="text"/> </div> </div>		
* 3. Date Received: 06/29/2017		* 4. Applicant Identifier: 2906
5a. Federal Entity Identifier: <input type="text"/>		5b. Federal Award Identifier: <input type="text"/>
State Use Only:		
6. Date Received by State: <input type="text"/>		7. State Application Identifier: <input type="text"/>
8. APPLICANT INFORMATION:		
* a. Legal Name: Utah State Univeristy		
* b. Employer/Taxpayer Identification Number (EIN/TIN): 87 60000528		* c. Organizational DUNS: 0729834550000
d. Address:		
* Street1: 1415 Old Main Hill Street2: <input type="text"/> * City: Logan County/Parish: <input type="text"/> * State: <input type="text"/> UT: Utah Province: <input type="text"/> * Country: <input type="text"/> USA: UNITED STATES * Zip / Postal Code: 84322 1415		
e. Organizational Unit:		
Department Name: <input type="text"/>		Division Name: <input type="text"/>
f. Name and contact information of person to be contacted on matters involving this application:		
Prefix: <input type="text"/> * First Name: Kellie Middle Name: <input type="text"/> * Last Name: Hedin Suffix: <input type="text"/>		
Title: Senior Grant and Contract Officer		
Organizational Affiliation: Utah State University		
* Telephone Number: 435 797 0470		Fax Number: <input type="text"/>
* Email: kellie.hedin@usu.edu		

DOI-2021-03 00044

Application for Federal Assistance SF-424			
* 9. Type of Applicant 1: Select Applicant Type: <input type="text" value="H: Public/State Controlled Institution of Higher Education"/>			
Type of Applicant 2: Select Applicant Type: <input type="text"/>			
Type of Applicant 3: Select Applicant Type: <input type="text"/>			
* Other (specify): <input type="text"/>			
* 10. Name of Federal Agency: <input type="text" value="Bureau of Land Management"/>			
11. Catalog of Federal Domestic Assistance Number: <input type="text" value="15.237"/>			
CFDA Title: <input type="text" value="Rangeland Resource Management"/>			
* 12. Funding Opportunity Number: <input type="text" value="L17AS00088"/>			
* Title: <input type="text" value="BLM UT, Grand Staircase Escalante National Monument Scientific Study to Employ GPS Technology to Understand Livestock Distribution, Grazing Practices, and Statistical Analysis of Rangeland Data"/>			
13. Competition Identification Number: <input type="text"/>			
Title: <input type="text"/>			
14. Areas Affected by Project (Cities, Counties, States, etc.): <div> <input type="text"/> <input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/> </div>			
* 15. Descriptive Title of Applicant's Project: <input type="text" value="BLM Ut, Grand Staircase Escalante National Monument Scientific Study to Employ GPS Technology to Understand Livestock Distribution, Grazing Practices, and Statistical Analysis of Rangeland Data."/>			
Attach supporting documents as specified in agency instructions. <div> <input type="button" value="Add Attachments"/> <input type="button" value="Delete Attachments"/> <input type="button" value="View Attachments"/> </div>			

Application for Federal Assistance SF-424	
16. Congressional Districts Of:	
* a. Applicant <input type="text" value="UT 001"/>	* b. Program/Project <input type="text" value="UT 002"/>
Attach an additional list of Program/Project Congressional Districts if needed.	
<input type="text"/>	<input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>
17. Proposed Project:	
* a. Start Date: <input type="text" value="08/01/2017"/>	* b. End Date: <input type="text" value="07/31/2018"/>
18. Estimated Funding (\$):	
* a. Federal	<input type="text" value="24,499.60"/>
* b. Applicant	<input type="text" value="0.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="24,499.60"/>
* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?	
<input type="checkbox"/> a. This application was made available to the State under the Executive Order 12372 Process for review on <input type="text"/> .	
<input type="checkbox"/> b. Program is subject to E.O. 12372 but has not been selected by the State for review.	
<input checked="" type="checkbox"/> c. Program is not covered by E.O. 12372.	
* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If "Yes", provide explanation and attach	
<input type="text"/>	<input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>
21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)	
<input checked="" type="checkbox"/> ** I AGREE	
** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.	
Authorized Representative:	
Prefix: <input type="text"/>	* First Name: <input type="text" value="Katie"/>
Middle Name: <input type="text"/>	
* Last Name: <input type="text" value="Dana"/>	
Suffix: <input type="text"/>	
* Title: <input type="text" value="Grant and Contract Officer"/>	
* Telephone Number: <input type="text" value="435 797 0943"/>	Fax Number: <input type="text"/>
* Email: <input type="text" value="katie.dana@usu.edu"/>	
* Signature of Authorized Representative: <input type="text" value="Katie Dana"/>	* Date Signed: <input type="text" value="06/29/2017"/>

DOI-2021-03 00046

Manifest for Grant Application # GRANT12440612

Grant Application XML file (total 1):

1. GrantApplication.xml. (size 14919 bytes)

Forms Included in Zip File(total 7):

1. Form GG LobbyingForm V1.1.pdf (size 23468 bytes)
2. Form ProjectNarrativeAttachments 1 2 V1.2.pdf (size 21435 bytes)
3. Form SF424 2 1 V2.1.pdf (size 30510 bytes)
4. Form BudgetNarrativeAttachments 1 2 V1.2.pdf (size 22408 bytes)
5. Form SF424A V1.0.pdf (size 28716 bytes)
6. Form Key Contacts V1.0.pdf (size 23019 bytes)
7. Form SF424B V1.1.pdf (size 28251 bytes)

Attachments Included in Zip File (total 2):

1. ProjectNarrativeAttachments 1 2 ProjectNarrativeAttachments 1 2 Attachments 1235 ProjectNarrative.pdf application/pdf (size 289030 bytes)
2. BudgetNarrativeAttachments 1 2 BudgetNarrativeAttachments 1 2 Attachments 1234 BudgetNarrative.pdf application/pdf (size 241483 bytes)

Areas Affected by Project

Iron County, UT

Kane County, UT

Garfield County, UT

Evaluation Instructions:

- Every committee member should fill out an Individual Evaluation Scoring Sheet for each proposal submitted. The notes do not need to be in paragraph form and can be brief.
- Adrienne Pilmanis, as the chairperson will complete the Final Ranking Sheet after the evaluating committee comes to consensus. Please ensure that the justification for rankings is provided.
- All Individual Evaluation Scoring Sheets and the Final Ranking Sheets will be returned to the Grants Management Officer (GMOS) to begin processing award(s).
- Please work with your GMO to help answer any questions regarding project evaluation and review.

Example Financial Assistance Evaluation Rating Factors:

Below are the rating factors that can be used by the Evaluation Team when assessing the quality and responsiveness of an applicant's proposal to each Evaluation Criteria. You may also develop your own criteria as a state. Please contact your GMO with questions on proposal evaluation.

OUTSTANDING - Very comprehensive, in depth, clear response. Proposal consistently meets this standard with no omissions. Consistently high quality performance can be expected.

EXCELLENT - Extensive, detailed response to the opportunity similar to outstanding in quality, but with minor areas of unevenness or spottiness. High quality performance is likely but not assured due to minor omissions or areas where less than excellent performance might be expected.

GOODNo deficiencies in the response. Better than acceptable performance can be expected but in some significant areas there is an unevenness or spottiness which might impact performance.

FAIRThe response generally meets minimum requirements but there is no expectation of better than acceptable performance. Deficiencies are confined to areas with minor impact on performance and may be corrected during negotiation without major revision to the proposal.

POORThe response fails to address one or more areas of the opportunity. Either, deficiencies exist in significant areas but may be corrected during negotiations without major revision to the proposal, or serious deficiencies exist in areas with minor impact.

UNSATISFACTORY - Serious deficiencies exist in significant areas. The proposal cannot be expected to address the opportunity without major revisions. The proposal only indicates a willingness to perform without specifying how or demonstrating the capacity to do so.

BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006
Expiration Date: 01/31/2019

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. L17AS00088		\$	\$	\$ 24,499.60	\$ 0.00	\$ 24,499.60
2.						
3.						
4.						
5. Totals		\$	\$	\$ 24,499.60	\$	\$ 24,499.60

Standard Form 424A (Rev. 7-97)
Prescribed by OMB (Circular A-102) Page 1

Tracking Number: GRANT12440612

Funding Opportunity Number: L17AS00088 Received Date: Jun 29, 2017 11:21:43 AM EDT

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	L17AS00088				
a. Personnel	\$ 17,042.50	\$	\$	\$	\$ 17,042.50
b. Fringe Benefits	1,367.78				1,367.78
c. Travel	2,440.44				2,440.44
d. Equipment	0.00				
e. Supplies	0.00				
f. Contractual	0.00				
g. Construction	0.00				
h. Other	0.00				
i. Total Direct Charges (sum of 6a-6h)	20,850.72				\$ 20,850.72
j. Indirect Charges	3,648.88				\$ 3,648.88
k. TOTALS (sum of 6i and 6j)	\$ 24,499.60	\$	\$	\$	\$ 24,499.60
7. Program Income	\$ 0.00	\$	\$	\$	\$

Authorized for Local Reproduction

Standard Form 424A (Rev. 7-97)
Prescribed by OMB (Circular A-102) Page 1A

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program		(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS
8.		\$	\$	\$	\$
9.					
10.					
11.					
12. TOTAL (sum of lines 8-11)		\$	\$	\$	\$

SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 24,499.60	\$ 6,125.00	\$ 6,125.00	\$ 6,125.00	\$ 6,124.60
14. Non-Federal	\$				
15. TOTAL (sum of lines 13 and 14)	\$ 24,499.60	\$ 6,125.00	\$ 6,125.00	\$ 6,125.00	\$ 6,124.60

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program		FUTURE FUNDING PERIODS (YEARS)			
		(b) First	(c) Second	(d) Third	(e) Fourth
16.		\$	\$	\$	\$
17.					
18.					
19.					
20. TOTAL (sum of lines 16 - 19)		\$	\$	\$	\$

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges: 20850.72	22. Indirect Charges: 3648.88
23. Remarks: IDC 17.5% Total Direct Costs	

Authorized for Local Reproduction

Standard Form 424A (Rev. 7- 97)
Prescribed by OMB (Circular A -102) Page 2

Tracking Number: GRANT12440612

Funding Opportunity Number: L17AS00088 Received Date: Jun 29, 2017 11:21:43 AM EDT

DOI-2021-03 00052

Budget Narrative File(s)

* Mandatory Budget Narrative Filename:

Add Mandatory Budget Narrative

Delete Mandatory Budget Narrative

View Mandatory Budget Narrative

To add more Budget Narrative attachments, please use the attachment buttons below.

Add Optional Budget Narrative

Delete Optional Budget Narrative

View Optional Budget Narrative

Budget Narrative File(s)

* Mandatory Budget Narrative Filename:

[Add Mandatory Budget Narrative](#)

[Delete Mandatory Budget Narrative](#)

[View Mandatory Budget Narrative](#)

To add more Budget Narrative attachments, please use the attachment buttons below.

[Add Optional Budget Narrative](#)

[Delete Optional Budget Narrative](#)

[View Optional Budget Narrative](#)

**GSENM Scientific Study to
Employ GPS Technology to
Understand Livestock
Distribution, Grazing
Practices and Statistical
Analysis of Rangeland Data
FY17 Final Ranking Sheet**

Office

GSENM

Program Officer

Melanie Beckstead

Grants Management Officer:

Name, Title; Name, Title; Name, Title

Reviewers/Committee:

i.e. 2/20/2017

Date Completed/Submitted:

Grant Tracking #	Proposal Title	Partner(s) / Applicant(s)	Requested \$ (this fiscal year)

Total budget (all fiscal years)	Length of study (years)	Field Office	BLM Contact	National Conservation Lands Unit	A. Project aligns with program objectives (Maximum score of 20/100)	Notes
					<p><i>Please provide an explanation of scoring criteria: e.g., 20 points given to projects that are outlined in bureau/state program plans or other strategic plans, 0 points given to projects that do not meet program needs, etc. Points can be assigned on a range.</i></p>	

B. Technical approach (Maximum score of 40/100)	Notes	C. Public Benefit (Maximum score of 20/100)	Notes	D. Qualifications and Past Performance (Maximum score of 20/100)	Notes
<p><i>Please provide an explanation of scoring criteria: e.g., 40 points could be given to projects for which the proficient in all technical aspects, 10 points could be given to projects that the program feels could provide limited technical expertise, 0 points could be assigned to projects that the program feels does not have any technical expertise. Points can be assigned on a range if necessary.</i></p>		<p><i>Please provide an explanation of scoring criteria (determined by the state): e.g., 20 points to applicants who have demonstrated excellent ties to a public benefit, 0 points given to applicants who have not shown strong ties to public benefit. Points can be assigned on a range if necessary.</i></p>		<p><i>Please provide an explanation of scoring criteria (determined by the state): e.g., 20 points to applicants who have clearly identified their qualifications for proposed project and demonstrated that qualification by explaining past projects, 0 points to those who do not.</i></p>	

Project Overall Score (Maximum score of 100/100)	Project Overall Ranking (1 is highest ranked) Please justify in the notes section if ranking differs from score.

[Attachment A]

BUREAU OF LAND MANAGEMENT
Financial Assistance (Cooperative Agreements)



PROJECT PROPOSAL

(Suggested Format)

Instructions: A Project Proposal must be submitted with the Standard Form (SF) 424 Application for Federal Assistance for all BLM Assistance Agreements. Complete each section below. Use additional sheets as needed.

Person Submitting Proposal: Kevin Heaton Date: 6/1/17

Organization Name: Utah State University Extension

Agreement or Announcement No.: L17AS00088

Agreement or Announcement Title: BLM-UT, Grand Staircase Escalante National Monument
Scientific Study to Employ GPS Technology to Understand
Livestock Distribution, Grazing Practices, and Statistical Analysis
of Rangeland Data.

Estimated Period of Performance: From August 1, 2017 to July 31, 2022

Proposed Project Location: Grand Staircase Escalante National Monument

This work will occur on: ☒ Public Lands ☐ Private Lands ☐ Both Public & Private Lands

YOUR MISSION:

Livestock grazing on public lands is a very controversial issue particularly on the Grand Staircase Escalante National Monument (GSENM) which was created in 1996. County officials and private ranchers would like to see improvements in the resource which would increase the sustained yield of the grazing resource. Several anti-grazing groups exist. These opposing parties desire grazing to be reduced to minimal or non-existent levels. The GSENM is currently seeking science based information to address the appropriate level of livestock grazing. Issues that affect the decision to increase livestock grazing include: amount of available forage and utilization of the forage. Our objective would be to provide research based solutions for livestock grazing on the GSENM by addressing utilization of forage including livestock foraging rough terrain and livestock traveling distances from water. Additionally, we would address the issue of harvest efficiency and determine if the published efficiency is applicable to grazing in arid landscapes.

Maintaining a positive image of livestock grazing is important for all public land managers and ranchers who graze livestock on public lands. In the early 1900's, the western public lands were over utilized and as a result significant environmental damage occurred. Since that time, land managers/ranchers have taken steps to improve the resource through better management. Livestock grazing management requires land managers and ranchers to understand the resource and apply scientific sound management principles on-the-ground. Holechek (2004) suggests that selecting the appropriate stocking rate is the most important grazing management decision a producer can make. Most public lands are well suited for livestock grazing, because their ruggedness, low productivity and/or lack of water limits other uses. It has been shown that cattle use decreases in areas over 2 miles from water, and slopes over 60% (Holechek J. L.,

[Attachment A]

1988). These limitations tend to concentrate cattle in the abundantly watered flat portions of the rangelands. If cattle are concentrating in the flat and well watered portions of the landscape it may lead to over utilization in some portions of the landscape while other portions of the landscape may get little or no use. Range management experts have traditionally suggested that moderate stocking rates will ensure that rangelands are not over used (Briske, 2008). Moderate stocking rate is defined as 50% removal of the forage produced in a given year. According to Smart, et al. 2010 the Great Plains region's harvest efficiency is 25% for a moderate stocking rate. This means that a grazing level of 50% indicates that livestock actually ingest 25%, insects, wildlife, trampling, defecation consume another 25% and the remaining 50% of grass stubble is left for range and watershed health.

Our research group hypothesizes that the harvest efficiency is much higher in semi-desert grazing systems due to the fact that there are larger interspaces between plants. Livestock utilize the plant interspaces to step and travel which reduces forage losses to an estimated 1-5% (Quinn, 1970) (Balph, 1985). Livestock grazing preferences and habits also add to the efficiency. GPS collars are commonly used in wildlife habitat use and migration studies and have been used with livestock to determine foraging patterns

Additionally, this proposal uses a broad-scale assessment of monitoring datasets to create a research framework and decision-support system that will ***enable the BLM to review how past management has impacted rangeland***. Analyzing data across a variety of sites will allow us to quantitatively assess the patterns of vegetation change across various sites and determine how they responded to similarly applied restoration treatments. This approach will allow us to evaluate the effectiveness of rangeland treatments.

OBJECTIVE:

The objective of this project is to help rangeland managers quantify how cattle are distributed across a rugged desert landscapes and how that affects utilization and harvest efficiency. The results of the GPS monitors and harvest efficiency studies will help us:

1. Quantify how far from water sources do cattle travel in a day and what proportion of their time was spent in the riparian/water areas.
2. Determine how much of the landscape is used during the grazing season and how do topographical features affect utilization of forage.
3. Identify the harvest efficiency in arid landscapes dominated by perennial bunch grasses and shrubs?
4. Summarize available data on restoration treatments both pre and post treatment.

TECHNICAL APPROACH:

Monitoring Livestock Movement

The Lotek GPS300LR GPS tracking collars will be used to monitor cattle movements on GSENM. To do this, we have identified willing livestock producers and will randomly select mature cows that are familiar with the GSENM and each cow will be fitted with a Collar prior to

[Attachment A]

the grazing season. The collar will record gps location and ambient temperature every 4 hours every day for a total of 8 locations in a 24 hour period. At the end of the grazing season collars will be collected from cattle and data will be downloaded. Data will then be analyzed in a Global Information Systems (GIS) frame work via commercially available GIS analytical software package, ARC MAP. We will initially use stream and water point data provided by the GSENM and 30 m Digital Elevation Models (DEM) to determine how far from water cattle are grazing and how far they are traveling on a daily basis. We will also plot cattle distribution on the DEMs to determine how cattle are using rugged landscapes. The location data will also be used to perform a resource selection function analysis which will provide a model of livestock landscape distribution. This will help us to determine what areas and portions of the rangeland are being utilized by cattle and what portion or areas are underutilized by cattle. Upon completion, this model estimate utilization at stratified distances from water and at various slopes to better understand how this will impact utilization of forage. To do this we will estimate utilization post grazing once growth has stopped. Utilization will be measured using the landscape appearance method which is commonly used by federal agencies to estimate utilization.

Determining Harvest Efficiency

Harvest efficiency will be measured by deploying 30 - 0.6 m x 0.9 m that will exclude all ungulates. The cages will be placed in key areas identified by GSENM (monitoring sites for utilization). These cages will be place just prior to initiation of plant growth in the spring. At the end of the growing season we will clip herbaceous vegetation (by functional groups) in a 0.25² m quadrat at ground level to determine utilization levels. Once forage is clipped, all litter will be removed by hand and bagged. All samples will be dried and weighed to determine dry weight. Litter samples will be floated in water (so soil can settle out) and dried to determine dry weight of litter (Heitschmidt, 1987). This will allow us to determine how much of the current year's growth has been consumed and what percentage has been trampled or senesced (litter portion).

Range Monitoring Data Analysis

This proposal will assist the BLM in organizing and analyzing the monitoring data collected on the GESNM. To do this we will extract and compile data from individual site monitoring reports into two master databases.

- a) *Vegetation Structure Database*: This database will contain cover and height data from line point-intercept data on plant cover by functional group (e.g., shrub, tree, perennial forb, perennial grass, and annual grass, bare ground, and litter).
- b) *Plant Community Database*: This database will include separate data columns for frequency and density data for each plant species.

Both databases will include separate rows for each year a site was monitored. There will be additional columns for treatment type, precipitation, and temperature (monthly and annual means) data specific to each project site and monitoring year. Also, columns will be added for slope and aspect, as well as soils data (e.g., stability, texture, pH, etc as it is available) and Ecological Site classification from the USDA, NRCS Ecological Site Inventory System (<https://esis.sc.egov.usda.gov>). For both databases, data will be further organized into pre-treatment, and post-treatment categories, depending on the timeframe at which they were

[Attachment A]

monitored., e.g., 1-3 yrs, 3-6 years, and 7-9 years.

Once data is compiled into useable databases, the analysis will begin by calculating means and standard errors of the data and graphing the data to identify patterns which may help refine research questions and future analysis. Analysis of variance (ANOVA) will most likely be used for analysis while employing GLIMMIX models and assessing changes overtime with repeated measures for cover, density and frequency data. We will also use Non-metric multidimensional scaling (NMDS) ordination in R to determine how plant composition changes vary across landscapes and treatments to determine how composition varies following treatments. We will also look at the possibility of conducting a meta-analysis or effect size analysis on the data to determine overall effectiveness of the treatments across sites on GESNM.

The available funding for this project is lacking in comparison to the scope of the proposal. This grant does not require a cost share, however USU has the capacity to meet cost share for future grant opportunities. In addition, Utah State University has secured funding purchase needed equipment, supplies and additional labor to match the scope of this call for proposals.

Milestone / Task / Activity	Start Date	Completion Date
1. Contact GSENM for range data analysis and conduct statistical analysis	Oct 2017	May 2018
2. Fit livestock with GPS Collars and monitor data	Nov 2017	Nov 2020
3. Collect data on harvest efficiency	Apr 2018	Dec 2018
4. Summarize research and publish final report	Nov 2020	May 2021
5. Submit journal article(s)	Nov 2020	Jul 2022

As grant funding is expended, milestones will be accomplished and reported in a timely manner. Milestones are dependant on secured and anticipated funding. If additional funding becomes available, milestones/tasks/activities could be effectively carried out until July 2022. Currently, Utah State University Extension and Utah Agriculture Experiment Station has committed \$30,000 and \$35,000, respectively, to this project in an effort to leverage funds.

PUBLIC BENEFIT:

This study will improve livestock grazing management on the GSENM. More importantly, it will use science based data to reduce the conflicts and build common ground for sustainable livestock grazing management, not only on the GSENM, but through out the semi desert rangelands of the western United States.

QUALIFICATIONS & PAST PERFORMANCE:

Kevin Heaton, Co-principle Investigator
Garfield/Kane County Extension
P.O. Box 77, Panguitch, UT 84759
435-676-1117
kevin.heaton@usu.edu

[Attachment A]

17 years experience, provide overall leadership, coordinate all research activities with ranchers and GSENM personnel.

Dr. Eric Thacker, Co-principle Investigator
USU Extension Range Specialist
5230 Old Main Hill, Logan, UT 84322
435-797-7874
eric.thacker@usu.edu

10 years experience, provide technical expertise, help with GPS collar procurement, data analysis and oversee graduate students.

Beth Burritt, Collaborator
USU Extension Range Specialist
5230 Old Main Hill, Logan, UT 84322
435-797-3576
beth.burritt@usu.edu

20 years experience, provide technical expertise and data analysis.

[Attachment B]

BUREAU OF LAND MANAGEMENT
Financial Assistance (Cooperative Agreements)



BUDGET DETAIL

(Suggested Format)

Instructions: Using the estimated amounts listed on your SF 424A Budget Information form, use this worksheet to provide details of those estimated costs. In the Narrative Boxes, explain the purpose of each cost and provide sufficient detail so costs may be analyzed for reasonableness.

Agreement or Funding Opportunity No.: L17AS00088 Date: 06/26/17

Organization Name: Utah State University

Project Title: Scientific Study to Employ GPS Technology to Understand Livestock Distribution, Grazing Practices, and Statistical Analysis of Rangeland Data

A) PERSONNEL COSTS (SF-424A Object Class Category 6a.)

Estimated costs of salaries/wages, not including fringe benefits, paid to Recipient employees working directly on this agreement. Indicate Key Personnel with an asterisk (*), provide more detail in the Narrative Box if needed.

Name & Title or Position Title	Salary or Wage	Months or Hours	Matching Funds (if applicable)	BLM Funds
MS Graduate Student	\$1,500/Mo.	12 Mos.	**	17,042.50
<i>Example: James Smith, Executive Director</i>	<i>\$20,000.00/Mo.</i>	<i>3 Mos.</i>	<i>\$15,000.00</i>	<i>\$45,000.00</i>
A) TOTAL PERSONNEL COSTS: (SF 424A Object Class Category 6a. Personnel)			\$	\$17,042.50

Narrative:

This funding will provide one graduate student for a year. Utah State University and Utah Agriculture Experiment Station will provide technical support and any additional funding shortfalls in order to meet the goals and objectives of this project.

Budget Detail

Page 2

B) FRINGE BENEFIT COSTS (SF-424A Object Class Category 6b.)

Estimated costs of fringe benefits (e.g. health insurance, vacation, FICA, etc.) paid to Recipient employees working on this agreement. List employees/positions below, and their fringe benefit rates as a percentage (%) of their salaries. List what are considered fringe benefits in the Narrative Box.

Name & Title/Position	Salary/Wage Base (BLM Amounts budgeted in Section A above)	Fringe Benefit Rate (%)	Matching Funds (if applicable)	BLM Funds
MS Graduate Student	\$18,000	0.80		\$1,367.78
<i>Example: James Smith, Executive Director</i>	<i>\$20,000.00</i>	<i>30%</i>	<i>\$0.00</i>	<i>\$6,000.00</i>
B) TOTAL FRINGE BENEFIT COSTS: (SF 424A Object Class Category 6b. Fringe Benefits)			\$	\$1,367.78
<u>Narrative:</u> Utah State Univesity benefits for students is 0.8% of their salary.				

Budget Detail

Page 3

C) TRAVEL COSTS (SF-424A Object Class Category 6c.)

SUB TOTAL, LODGING & PER DIEM The cost of lodging & meals while traveling for agreement activities. Give details and purpose of the travel in the Narrative Box. Current Federal rates may be found online at: <http://www.gsa.gov/portal/category/21287>.

Proposed Travel (Lodging & Per Diem)		No. of People	No. of Days	Cost Per Person Per Day	Matching Funds (if applicable)	BLM Funds
To:	GSENM Field Data Collection	2	9	\$51/day		\$918.00
From:	Logan, Utah					
To:	Lodging, Kanab	1	9	\$75/day		\$675.00
From:	Logan					
To:						
From:						
To:	Example: Portland, OR	1	2	\$150.00/ Day	\$100.00	\$200.00
From:	Eugene, OR					

SUB TOTAL, MILEAGE REIMBURSEMENT The cost of reimbursement for estimated mileage traveled in recipient vehicles for agreement activities. Give details and the purpose of the travel in the Narrative Box. Current Federal mileage reimbursement rates may be found online at: www.GSA.gov. **NOTE:** Mileage reimbursement rates include all vehicle costs, i.e. fuel, insurance, maintenance, etc.

Proposed Travel (Mileage Reimbursement)		No. of Miles	No. of Trips	Cost Per Mile	Matching Funds (if applicable)	BLM Funds
To:	GSENM Field Data Collection	775	2	\$0.535/ mile		\$847.44
From:	Logan, Utah					
To:						
From:						
To:						
From:						
To:	Example: Portland, OR	110 Miles	2	\$0.10/ Mile	\$0.00	\$22.00
From:	Eugene, OR					

SUB TOTAL, OTHER TRAVEL COSTS The costs of airfare, bus fare, car rental, etc., required for agreement activities. Explain the details and the purpose of the costs in the Narrative Box.

Proposed Other (Travel Reimbursement)		Type	Cost	No.	Matching Funds (if applicable)	BLM Funds
To:						
From:						
To:						
From:						
To:						
From:						

C) TOTAL TRAVEL COSTS:

(SF 424A Object Class Category 6c. Travel)

\$ \$2,440.44

Narrative:

Travel distance from Logan to the GSENM is significant. Utah State/Utah Agriculture Experiment Station will provide additional funding if needed for travel to and from the GSENM.

Budget Detail

Page 4

D) EQUIPMENT COSTS (SF-424A Object Class Category 6d. Equipment)

The cost of equipment purchased for use on this agreement. Equipment is defined as items with a useful life of more than one (1) year and a cost of \$5,000+ per unit. If your organization has a written policy for purchasing equipment, please submit a copy with your application. Explain the need and purpose of the equipment in the Narrative Box below.

Equipment	Quantity	Cost per Unit	Matching Funds (if applicable)	BLM Funds

Example: John Deere Compact Tractor	1	\$17,500.00	\$7,500.00	\$10,000.00

D) TOTAL EQUIPMENT COSTS:

(SF 424A Object Class Category 6d. Equipment)

\$

\$

Narrative:

***Equipment will be provided from Utah State University and Utah Agriculture Experiment Station.

E) SUPPLY COSTS (SF-424A Object Class Category 6e. Supplies)

Estimated costs of materials and supplies used directly on this agreement, e.g. safety glasses, work gloves, office supplies, etc. If your organization has a written policy for purchasing supplies, please submit a copy with your application. Explain the purpose of the costs in the Narrative Box below.

Item	Quantity	Cost per Unit	Matching Funds (if applicable)	BLM Funds

Example: Work Gloves, Leather	6	\$10.00/Pair	\$50.00	\$10.00

E) SUPPLY COST TOTAL:

(SF 424A Object Class Category 6e. Supplies)

\$

\$

Narrative:

***Supplies will be provided from Utah State University and Utah Agriculture Experiment Station funding.

Budget Detail

Page 5

F) CONTRACTUAL COSTS (SF-424A Object Class Category 6f. Contractual)

Estimated costs of contracted/sub contracted services and sub grant/recipient awards. If your organization has a written contracting policy, please submit a copy with your application. Provide contractor names, if available, and explain the details and purposes of the costs in the Narrative Box below. **NOTE:** Calculation of your Indirect Costs may be affected by contracted and/or pass through expenses. See Section J) INDIRECT COSTS, for more information.

Contractor Name, Type, etc.	Cost	Matching Funds (if applicable)	BLM Funds
<i>Example: Ace Delivery Service (Yearly Contract)</i>	\$2,500.00	\$0.00	\$2,500.00

F) CONTRACTUAL COST TOTAL:

(SF 424A Object Class Category 6f. Contractual)

\$

\$

Narrative:**G) CONSTRUCTION COSTS** (SF-424A Object Class Category 6g. Construction)

The estimated costs of construction. "Construction" is the intent to construct, alter, or repair (including dredging, excavating, and painting) buildings, structures, or other real property FAR Part 2 Definitions. Explain the details and purpose of the costs in the Narrative Box below.

Contractor: Name/Type/Organization/Etc.	Cost	Matching Funds (if applicable)	BLM Funds

G) CONSTRUCTION COST TOTAL:

(SF 424A Object Class Category 6g. Construction)

\$

\$

Narrative:

Budget Detail

Page 6

H) OTHER COSTS (SF-424A Object Class Category 6h. Other)

Estimated costs which don't fit any other Object Class Category, e.g. duplicating and printing costs, postage and freight, rental of equipment, etc. Explain the details and purpose of the costs in the Narrative Box below.

Item	Cost	Matching Funds (if applicable)	BLM Funds
<i>Example: Ace Equipment Rental (Post-Hole Digger, 4 Days)</i>	<i>\$25/Day</i>	<i>\$0.00</i>	<i>\$100.00</i>
H) OTHER COSTS TOTAL: (SF 424A Object Class Category 6h. Other)		\$	\$
<u>Narrative:</u>			

I) TOTAL DIRECT COSTS (SF-424A Object Class Category 6i. Sum of 6a.-6h.)

The total of all direct costs applicable to this project.

Total Direct Costs	Matching Funds (if applicable)	BLM Funds
I) TOTAL DIRECT COSTS: (SF 424A Object Class Category 6i. Total, Sum of 6a. 6h.)	\$	\$20,850.72

J) INDIRECT COSTS (SF-424A Object Class Category 6j. Indirect Charges)

Indirect costs are expenses which cannot be readily identified and charged to a particular project or agreement, e.g. building rent, utilities, office supplies, etc. Such costs are charged to the project as a percentage of the Direct Costs (items A through H above) and this percentage is called the Indirect Cost Rate. If your organization has a Negotiated Indirect Cost Rate Agreement (NICRA) please submit a copy of the agreement with your application. If your organization has no NICRA, the BLM may allow a "de minimis" indirect cost rate of up to 10% of your Modified Total Direct Costs (MTDC), which are your Direct Costs excluding sub grant and sub contract costs in excess of \$25,000. See 2 CFR 200.68 Modified Total Direct Cost (MTDC) and 2 CFR 200.414(f) Indirect (F&A) Costs for more information.

If your organization is a Cooperative Ecosystems Studies Unit (CESU) partner, your indirect cost rate will be 17.5% of your NICRA determined indirect cost base.

Use the Narrative Box below to explain how you calculated your indirect cost base and resulting indirect costs.

Indirect Cost Rate to be used on this Grant (%):	17.5		
Indirect Cost Base for this Grant:	\$20,584.44		
Total Indirect Costs	Matching Funds (if applicable)	BLM Funds	
J) TOTAL INDIRECT COSTS: (SF 424A Object Class Category 6j. Indirect Charges)	\$	\$3,648.88	

Narrative: Indirect Costs were calculated at the 17.5% for a Cooperative Ecosystem Studies Unit partner.

K) TOTALS (SF-424A Object Class Category 6k. TOTALS)

The sum total of all Direct and Indirect Costs (Sum of 6i. & 6j.) applicable to this agreement.

Total Project Costs	Matching Funds (if applicable)	BLM Funds
K) TOTAL COSTS: (SF 424A Object Class Category 6k. TOTALS)	\$	\$24,499.60

I certify that to the best of my knowledge the costs detailed above are correct and complete and for the purposes set forth in the associated application for Federal Assistance.

Kevin Heaton – Principle Investigator

Name & Title of Person Completing Budget

Rev 4/2016



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Financial Assistance



**STATEMENT OF PROGRAMMATIC INVOLVEMENT
(SPI)**

Refer to the WO Financial Assistance SharePoint Site Program Officers Forms and Documents

INSTRUCTIONS Prior to filling out your SPI contact your local Grants Management Officer (GMO) to discuss your project. Once the SPI is finalized between you and your GMO then you will be required to sign either digitally using Adobe Pro/Read with validation or a digital certificate or with a scanned copy of an original signature then send to your GMO for approval.

Information contained in the Statement of Programmatic Involvement (SPI) is used by your Grants Management Officer (GMO) and your State Procurement Analyst to determine whether or not your request is a contract or financial assistance. If approved, this information will be used to post a Financial Assistance Funding Opportunity Announcement (FOA) to www.Grants.gov. The FOA contains details sufficient to allow applicants to make an informed decision as to whether or not they want to apply for an award.

As you work through the SPI there are comments in the right hand column to assist you in filling out your SPI. Once you've completed the section place your cursor in the comment box and right click to "DELETE" the comment, prior to saving and sending to your GMO.

ESSENTIAL QUESTIONS

Partnerships with non-Federal organizations are essential in helping the BLM meet its mission of managing and protecting resources, providing recreation, and serving communities. However, Financial Assistance (FA) grants & cooperative agreements are not substitutes for contracts. If the principal purpose of a project is to provide goods or services for the direct benefit of the BLM, a contract is the appropriate legal instrument to use. By answering the following questions will assist in ensuring that a Financial Assistance Agreement is the appropriate instrument.

1. Yes ☒ or No ☐ Does the Legislative Authority specifically authorize the Secretary of the Interior (BLM) to enter into a Cooperative Agreement or Grant?
2. Yes ☒ or No ☐ Does the project or program support or stimulate a "public" purpose?
3. Yes ☒ or No ☐ Does your project require the proposed recipient to deliver a goods or complete a service for the benefit of BLM?
4. Yes ☒ or No ☐ Is your project operating under a MOU or other type of agreement?

Title: Colorado Plateau CESU
Expiration Date:

Reference Number:

5. Yes ☒ or No ☐ Does this project require NEPA? Most likely a Categorical Exclusion for research
6. Completed ☐ Pending ☒ N/A ☐ Is there NEPA completed?
If yes, please reference documents in background below.
7. Completed ☐ Pending ☐ N/A ☒ Does this project require consultation under the Endangered Species Act?
If yes, reference number:
8. Completed ☐ Pending ☐ N/A ☒ Has compliance with National Historic Preservation Act: Section 106 been completed?

If yes, reference number:

PROJECT TITLE The title will be on the FOA and carry over to the award

(Example only: BLM-(State), Red River Watershed Restoration (May add District or Field Office at end, if needed)

Title: BLM UT, Grand Staircase Escalante National Monument Scientific Study to Employ GPS Technology to Understand Livestock Distribution, Grazing Practices, and Statistical Analysis of Rangeland Data.

CERTIFIED PROGRAM OFFICER (PO)

Name: Allen Bate

District/Office: GSENM

Address: 669 S Highway 89 A

City, State, & Zip: Kanab, UT 84741

Telephone: 435 644 1224

Email: abate@blm.gov

Certificate No. & Exp. Date.

Other Contact Info:

PROGRAM OFFICER/TECHNICAL OFFICERS (PO) CERTIFICATION STATEMENT

Based upon the information contained herein, I certify that this requirement is for a public purpose of support or stimulation and request that it be announced as a Financial Assistance Funding Opportunity Announcement (FOA) on www.Grants.gov.

Signature

Date

FIELD PROJECT INSPECTOR (PI), (If applicable)

Certified PO is responsible for informing the PI of their roles and responsibilities and ensure no conflict of interest is present.)

Name: Kevin Heaton

District/Office: Utah State University County Extension

Address: 180 West 300 North

City, State, & Zip: Kanab, UT 84741

Telephone: 435 644 4901

Email: Kevin.heaton@usu.edu

Other Contact Info:

CFDA (Catalog of Federal Domestic Assistance) Code

(Select the most appropriate code and delete the rest. More information about CFDA codes can be found at www.CFDA.gov.)

15.237 Rangeland Resource Management

AUTHORITY Generally, only one authority may be used to enter into a Financial Assistance Agreement. Contact the GMO with questions.

FEDERAL LAND POLICY AND MANAGEMENT ACT OF 1976 (FLPMA), 43 USC §1737, Public Law 94 579

OTHER PROGRAM LEGISLATION AND/OR REGULATIONS APPLICABLE TO YOUR PROJECT

(Include specific Title, Public Law No., and specific of the authority, BLM Manuals and Policies and explain how it applies to your program/project. Also include in evaluation criteria section of this document how these requirements will be evaluated)

DESCRIPTION OF PROGRAM / PROJECT

1. Background: During the development of the GSENM Livestock Grazing Plan Amendment and EIS, an interagency team was created to develop a forage analysis model. Several information gaps were identified including the amount of forage availability by slope, vegetation types, and restoration treatments. Many of the restoration treatments on the Monument have been monitored for 3 10 years but the data has not been analyzed to determine available forage post treatment. In addition, the team had to determine harvest efficiencies from data in the Great Plains because that was the only available information.
2. Objectives *(What are you looking to accomplish with this project?)*: The GSENM managed by BLM is looking to enter into a multi year agreement with a partner to investigate cattle grazing distribution using GPS technology, across a gradient of slope and vegetation types. To better understand how vegetation restoration treatments are influencing forage availability and how efficiently cattle utilize the available forage.
3. Public Benefit: This project will provide education opportunities for students and potentially a graduate student thesis project. The information gained from this study will assist extension agents, ranchers, and public land managers. The results from this study and existing vegetation treatments will provide necessary information for management and livestock permittees in making decisions that allow for grazing while protecting the resources. The Monument is at the early stages of grazing permit renewals and the knowledge and information gained from this study will assist Monument managers to adapt management decisions to current vegetation conditions, topography and future restoration treatments. The results from this study will be beneficial to other public land management agencies with multiple use mandates.
4. This work will occur on: ☒ Public Lands ☐ Both Public & Private Lands

PROGRAM / PROJECT PERFORMANCE GOALS

Year 1: Implement field study, initiate data collection on cattle movement and terrain utilization, and forage availability and utilization. Evaluate existing vegetation treatment data sets for analysis.

Year 2: Continue field data collect and develop cattle distribution models based on a slope gradient and vegetation treatments. Analyze existing data sets, summarize and produce a report.

Year 3 4: Continue field components and data collection.

Year 5: Summarize, analyze and interpret findings. Provide the Monument with a report. Present findings to management and other stakeholders.

(Performance "Measures" will generally depend on the specifics of Applicant Proposals)

SUBSTANTIAL INVOLVEMENT

(Required for Cooperative Agreements: Describe how the BLM will be involved) and edit the following statement as needed to fit your level of involvement. Cooperative agreements require that a greater time of commitment to the project as opposed to merely providing standard monitoring financial and performance reports).

Monument science and resource staff will work with the recipient in all phases of the study. Initially, staff and recipient will develop a statistically robust study design, identify willing permittees, and assist with field implementation. Monument staff will gather the existing data sets and collaboratively evaluate them for completeness and utility for analyzing. Recipients and the staff will share responsibility for project management, control, and direction while Monument staff will have the ability to intervene by modifying the project management if the project is not staying on schedule or technical issues arise.

LIABILITY INSURANCE REQUIREMENTS

(Risk Assessment: Will potential partners use equipment, vehicles, hazardous materials, and/or engage in high-risk activities which have the potential for claims brought by third parties for death, bodily injury, property damage, or other loss resulting in one or more award activities?)

- ☐ YES Discuss with your GMO how likely and severe the risks is and decide what measures should be in place to effectively prevent or control the harm from happening, in accordance with DIG 2014 01 FA Liability & Insurance. *This may include the requirement for liability insurance.*
- ☒ NO Additional liability insurance terms or conditions are not required.

EVALUATION CRITERIA and MERIT-BASED REVIEWS

(Merit-based review of applications will be used any time a Funding Opportunity Announcement is advertised as being open to competition. The evaluation criteria are the measures by which applicants and their proposals will be scored and rated. If we receive more than one application, we will convene an Evaluation Team to review, rate, score, rank, and recommend applicants for award. Please edit as needed to ensure it covers what you need it to. The following criteria and scoring is general, please revise as needed to match your specific project or program.)

Recipient Proposals will be Evaluated Using the Following Criteria:

- 1. OBJECTIVE (Maximum score 15/100 Points)**
 - Describe your mission and objectives.
 - Describe how these objectives support your mission.
- 2. TECHNICAL APPROACH (Maximum score 50/100 Points)**
 - Describe the techniques, processes, methodologies to be used.
 - Describe how data collection, analysis, and means of interpretation will be accomplished.
 - Describe how the proposed objectives will be achieved within the proposed period of performance (POP).
 - Describe significant goals or milestones and how they will be measured.
 - Describe tasks and relationships of partners, if applicable.
- 3. PUBLIC BENEFIT (Maximum score 15/100 Points)**
 - Describe how this project benefits the general public.
- 4. QUALIFICATIONS and PAST PERFORMANCE (Maximum score 20/100 Points)**

List key project personnel and their contact information.

Describe key personnel responsibilities, time to be dedicated to the project, and how their experience and qualifications are appropriate to success of the project.

List contractors, if known, and their qualifications.

Describe any unique qualifications which support being awarded assistance for this project, such as continuation of the proposed project, technical expertise, cost sharing ability, etc.

5. OFFERED COST SHARE or MATCH (Cost is not normally not evaluated. However, is reviewed during the merit review, if you want to use cost as a tie breaker, please indicate).

The Authority under which this opportunity is being announced requires a recipient cost share or match of 50% from non Federal sources to initiate the project.

FUNDING AMOUNTS and NUMBER OF AWARDS

Anticipated Number of Awards: 1

Anticipated Individual Award Amounts: \$15,000

Anticipated Total Amount of Initial Funding: \$ not sure who this differs from above

Estimated Total Funding to be Awarded over the Life of the Award(s): \$ 500,000

COST SHARING / MATCHING

- ☐ Challenge Cost Share Authority: 100%, 1:1 (Recipient:BLM) Match
- ☐ Public Lands Corps Authority: 25% of Total Project Costs, 1:3 (Recipient:BLM) Match
- ☐ Endangered Species Act Authority: When using this authority, refer to (d) Allocation of Funds (2)(i) the Federal share of such program costs shall not exceed 75% of the estimated program cost stated in agreement, 1:3 (Recipient:BLM) Match; and (ii) 10% whenever two or more States having a common interest in one or more endangered or threatened species.
- ☐ Wyden Amendment: As may be determined per 16 USC §1011(c)(1)(D) provide for the sharing of costs of implementing the agreement among the Federal Government, the landowner, and other entities, as mutually agreed on by the affected interests;
- ☐ Other:
- ☒ None

PERIOD OF PERFORMANCE

Estimated Start Date: August 1, 2017

Estimated Period of Performance (5 year maximum)

From: August 1, 2017 To: August 1, 2022

MANDATORY AWARDS

(Not required to be posted on www.Grants.gov)

☐ **Legislative Intent** The language in the applicable authorizing legislation must clearly indicate the intent of Congress to restrict BLM awarding to a particular recipient with a stated purpose and amount to award (must be stated in the annual appropriation).

Authorizing Language: (For example: Consolidated and Further Continuing Appropriations Act P.L. 113 235 "\$3,000,000 shall be available in FY** to National Fish and Wildlife Foundation for cost share projects supporting conservation of Bureau lands.")

CONFIDENTIAL

INSTRUMENT SELECTION DETERMINATION (ISD)

Naming Convention for WO Submission: [State] SPI_ISD [Project Title] or [State] ISD Amend [Project Title]

E-mail Address: BLM WO SPI ISDs For Approval@blm.gov

GMO & PROCUREMENT ANALYST APPROVALS

(This action must be approved by the Grants Management Officer (GMO) and their respective Procurement Analyst (PA), or equivalent, as to whether it is appropriate as financial assistance. If requested, the SPI/ISD may be reviewed and approved by the Washington Office Bureau Grants Policy Manager (WO-BGPM) and/or Solicitor.)

- ☐ **Financial Assistance** (Grant or Cooperative Agreement)
- ☐ **Contract** (If contract, the PA will assign a Contract Specialist)

Commented [MG1]: You may need to add additional backup information when you make your determination. If you talked with the PO and the information was not added into the SPI you can add your comments under the box for FA or Contract, whichever it applies under.

Grants Management Officer (GMO) Approval:

Based upon the above information, I determine that there is legislative authority for this project to be announced on www.Grants.gov as a financial assistance transaction which is for a public purpose of support or stimulation.

Admin GMO:

<i>Printed Name</i>	<i>Signature</i>	<i>Date</i>

Certified GMO:

<i>Printed Name</i>	<i>Signature</i>	<i>Date</i>

Procurement Analyst (PA), or equivalent, Approval:

Based on the above information, I hereby concur that the contemplated transaction meets the criteria for financial assistance and is not an acquisition governed by the Federal Acquisition Regulations (FAR).

PA:

<i>Printed Name</i>	<i>Signature</i>	<i>Date</i>

WASHINGTON OFFICE APPROVAL

SPECIAL REQUIREMENTS:

- For awards estimated to exceed \$250,000 over the life of the agreement, the SPI/ISD must be approved by a GMO with sufficient signing authority, their PA, and the WO-BGPM.
- WO-BGPM must approve any SPI/ISD with an anticipated amount higher than the GMO's certified signatory authority that will be responsible for administering that award.
- SPI/ISD's under CFDA Code 15.229 - Wild Horse and Burro Resource Management, the ISD must be approved by the BGPM and reviewed by the Washington Office Solicitor (SOL) for legal sufficiency, unless BGPM and/or Bureau Procurement Chief determines otherwise.

Bureau Grants Program Manager (BGPM) Approval:

Based on the above information, I hereby concur that the contemplated transaction meets the criteria for financial assistance.

BGPM:

<i>Printed Name</i>	<i>Signature</i>	<i>Date</i>

SOLICITOR'S OFFICE APPROVAL

(Prior Bureau Grants Program Manager review and approval required.)

Version 12 2016

Page 8 of 9

Solicitor Approval:

Based upon legal review, I concur that the contemplated transaction meets the criteria for financial assistance.

Solicitor:

Printed Name

Signature

Date

END

Version 12 2016

DOI-2021-03 00078

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

Previous Edition Usable

Authorized for Local Reproduction

Standard Form 424B (Rev. 7-97)
Prescribed by OMB Circular A-102

DOI-2021-03 00080

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE
Katie Dana	Grant and Contract Officer
APPLICANT ORGANIZATION	DATE SUBMITTED
Utah State Univeristy	06/29/2017

Standard Form 424B (Rev. 7-97) Back

Project Narrative File(s)

* Mandatory Project Narrative File Filename:

[Add Mandatory Project Narrative File](#)

[Delete Mandatory Project Narrative File](#)

[View Mandatory Project Narrative File](#)

To add more Project Narrative File attachments, please use the attachment buttons below.

[Add Optional Project Narrative File](#)

[Delete Optional Project Narrative File](#)

[View Optional Project Narrative File](#)

Application for Federal Assistance SF-424		
<div> <div> * 1. Type of Submission: <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application </div> <div> * 2. Type of Application: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision </div> <div> * If Revision, select appropriate letter(s): <input type="text"/> * Other (Specify): <input type="text"/> </div> </div>		
* 3. Date Received: 06/27/2017		4. Applicant Identifier: <input type="text"/>
5a. Federal Entity Identifier: <input type="text"/>		5b. Federal Award Identifier: <input type="text"/>
State Use Only:		
6. Date Received by State: <input type="text"/>		7. State Application Identifier: <input type="text"/>
8. APPLICANT INFORMATION:		
* a. Legal Name: Southern Utah University		
* b. Employer/Taxpayer Identification Number (EIN/TIN): 87 6000481		* c. Organizational DUNS: 0209176700000
d. Address:		
* Street1: 351 W. University Blvd. Street2: <input type="text"/> * City: Cedar City County/Parish: <input type="text"/> * State: <input type="text"/> UT: Utah Province: <input type="text"/> * Country: <input type="text"/> USA: UNITED STATES * Zip / Postal Code: 84720 2415		
e. Organizational Unit:		
Department Name: <input type="text"/>		Division Name: <input type="text"/>
f. Name and contact information of person to be contacted on matters involving this application:		
Prefix: <input type="text"/> * First Name: Randall Middle Name: <input type="text"/> * Last Name: Violett Suffix: <input type="text"/> Title: Assistant Professor Organizational Affiliation: <input type="text"/> * Telephone Number: (435) 586 1923 Fax Number: <input type="text"/> * Email: randallviolett@suu.edu		

Application for Federal Assistance SF-424		
* 9. Type of Applicant 1: Select Applicant Type: <input type="text" value="H: Public/State Controlled Institution of Higher Education"/>		
Type of Applicant 2: Select Applicant Type: <input type="text"/>		
Type of Applicant 3: Select Applicant Type: <input type="text"/>		
* Other (specify): <input type="text"/>		
* 10. Name of Federal Agency: <input type="text" value="Bureau of Land Management"/>		
11. Catalog of Federal Domestic Assistance Number: <input type="text" value="15.237"/>		
CFDA Title: <input type="text" value="Rangeland Resource Management"/>		
* 12. Funding Opportunity Number: <input type="text" value="L17AS00088"/>		
* Title: <input type="text" value="BLM UT, Grand Staircase Escalante National Monument Scientific Study to Employ GPS Technology to Understand Livestock Distribution, Grazing Practices, and Statistical Analysis of Rangeland Data"/>		
13. Competition Identification Number: <input type="text"/>		
Title: <input type="text"/>		
14. Areas Affected by Project (Cities, Counties, States, etc.): <input type="text" value="Areas Affected by Project.pdf"/> <input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>		
* 15. Descriptive Title of Applicant's Project: <input type="text" value="Scientific study of Grand Staircase Escalante National Monument to employ GPS technology to understand livestock distribution, grazing practices, and statistical analysis of rangeland data."/>		
Attach supporting documents as specified in agency instructions. <input type="button" value="Add Attachments"/> <input type="button" value="Delete Attachments"/> <input type="button" value="View Attachments"/>		

Application for Federal Assistance SF-424	
16. Congressional Districts Of:	
* a. Applicant <input type="text" value="UT 002"/>	* b. Program/Project <input type="text" value="UT 002"/>
Attach an additional list of Program/Project Congressional Districts if needed.	
<input type="text"/>	<input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>
17. Proposed Project:	
* a. Start Date: <input type="text" value="10/01/2017"/>	* b. End Date: <input type="text" value="09/30/2022"/>
18. Estimated Funding (\$):	
* a. Federal	<input type="text" value="25,000.00"/>
* b. Applicant	<input type="text" value="0.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="25,000.00"/>
* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?	
<input type="checkbox"/> a. This application was made available to the State under the Executive Order 12372 Process for review on <input type="text"/> .	
<input type="checkbox"/> b. Program is subject to E.O. 12372 but has not been selected by the State for review.	
<input checked="" type="checkbox"/> c. Program is not covered by E.O. 12372.	
* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If "Yes", provide explanation and attach	
<input type="text"/>	<input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>
21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)	
<input checked="" type="checkbox"/> ** I AGREE	
** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.	
Authorized Representative:	
Prefix: <input type="text"/>	* First Name: <input type="text" value="Julia"/>
Middle Name: <input type="text"/>	
* Last Name: <input type="text" value="Anderson"/>	
Suffix: <input type="text"/>	
* Title: <input type="text" value="Director of Sponsored Programs"/>	
* Telephone Number: <input type="text" value="435 865 8175"/>	Fax Number: <input type="text"/>
* Email: <input type="text" value="juliaanderson@suu.edu"/>	
* Signature of Authorized Representative: <input type="text" value="Karen Wilson"/>	* Date Signed: <input type="text" value="06/27/2017"/>

DOI-2021-03 00085

Project Narrative File(s)

* Mandatory Project Narrative File Filename:

[Add Mandatory Project Narrative File](#)

[Delete Mandatory Project Narrative File](#)

[View Mandatory Project Narrative File](#)

To add more Project Narrative File attachments, please use the attachment buttons below.

[Add Optional Project Narrative File](#)

[Delete Optional Project Narrative File](#)

[View Optional Project Narrative File](#)

CERTIFICATION REGARDING LOBBYING**Certification for Contracts, Grants, Loans, and Cooperative Agreements**

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

* APPLICANT'S ORGANIZATION	
Utah State Univeristy	
* PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE	
Prefix:	* First Name: Katie Middle Name:
* Last Name: Dana	Suffix:
* Title: Grant and Contract Officer	
* SIGNATURE: Katie Dana	* DATE: 06/29/2017

**INDIVIDUAL EVALUATION
SCORING SHEET**Funding Opportunity Announcement No. L17AS00088

Date: _____

Grants.gov Project # and Applicant Legal Business Name: _____

Evaluator: _____

Evaluation Factors	Ratings (see attached description or use your own method)
<u>Project aligns with program objectives</u> (20/100 Points) Notes:	
<u>Technical approach</u> (40/100 Points) Notes:	
<u>Public Benefit</u> (20/100 Points) Notes:	
<u>Qualifications and Past Performance</u> (20/100 Points) Notes:	

BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006
Expiration Date: 01/31/2019

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. BLM-UT, Grand Staircase Escalante National Monument Scientific Study	15.237	\$ 25,000.00	\$	\$	\$	\$ 25,000.00
2.						
3.						
4.						
5. Totals		\$ 25,000.00	\$	\$	\$	\$ 25,000.00

Standard Form 424A (Rev. 7-97)
Prescribed by OMB (Circular A-102) Page 1

Tracking Number: GRANT12438827

Funding Opportunity Number: L17AS00088 Received Date: Jun 27, 2017 05:08:06 PM EDT

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	BIM-UT, Grand Staircase Escalante National Monument Scientific Study				
a. Personnel	\$ 10,200.00	\$	\$	\$	\$ 10,200.00
b. Fringe Benefits	1,827.00				1,827.00
c. Travel	1,812.00				1,812.00
d. Equipment					
e. Supplies	9,056.00				9,056.00
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)	22,895.00				\$ 22,895.00
j. Indirect Charges	2,105.00				\$ 2,105.00
k. TOTALS (sum of 6i and 6j)	\$ 25,000.00	\$	\$	\$	\$ 25,000.00
7. Program Income	\$	\$	\$	\$	\$

Authorized for Local Reproduction

Standard Form 424A (Rev. 7-97)
Prescribed by OMB (Circular A-102) Page 1A

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. BIM-UT, Grand Staircase Escalante National Monument Scientific Study	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	
9. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
10. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
11. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
12. TOTAL (sum of lines 8-11)	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	

SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ <input type="text" value="25,000.00"/>	\$ <input type="text" value="6,250.00"/>	\$ <input type="text" value="6,250.00"/>	\$ <input type="text" value="6,250.00"/>	\$ <input type="text" value="6,250.00"/>
14. Non-Federal	\$ <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
15. TOTAL (sum of lines 13 and 14)	\$ <input type="text" value="25,000.00"/>	\$ <input type="text" value="6,250.00"/>	\$ <input type="text" value="6,250.00"/>	\$ <input type="text" value="6,250.00"/>	\$ <input type="text" value="6,250.00"/>

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT				
(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)			
	(b) First	(c) Second	(d) Third	(e) Fourth
16. BIM-UT, Grand Staircase Escalante National Monument Scientific Study	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
17. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
18. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
19. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
20. TOTAL (sum of lines 16 - 19)	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges: <input type="text" value="\$22,895"/>	22. Indirect Charges: <input type="text" value="2105"/>
23. Remarks: <input type="text" value="Indirect costs charged at 17.5% as per CPCEU agreement on SUU's federally negotiated rate of salaries, wages, and benefits."/>	

Authorized for Local Reproduction

Standard Form 424A (Rev. 7- 97)
Prescribed by OMB (Circular A -102) Page 2

Tracking Number: GRANT12438827

Funding Opportunity Number: L17AS00088 Received Date: Jun 27, 2017 05:08:06 PM EDT

DOI-2021-03 00091

Key Contacts Form

* Applicant Organization Name:

Utah State Univeristy

Enter the individual's role on the project (e.g., project manager, fiscal contact).

* Contact 1 Project Role:

PI

Prefix:

* First Name: Kevin

Middle Name:

* Last Name: Heaton

Suffix:

Title:

Organizational Affiliation:

* Street1:

PO Box 77

Street2:

* City:

Panquitch

County:

* State:

UT: Utah

Province:

* Country:

USA: UNITED STATES

* Zip / Postal Code:

84759 0000

* Telephone Number:

435 676 1117

Fax:

* Email:

kevin.heaton@usu.edu