



Program: Tribal College Research  
Type of application: Capacity Building Research  
Application option: Basic Capacity Building Research

The Effects of Mining on Agriculture on the Green Reservation

Robert Karrot

Green Giant Tribal College

GRANT00xxxxx/

2012-00xxx

Disclaimer: This is a template designed to illustrate key points and potential pitfalls in the Research RFA for 2012. It could not be funded as an application--use it for suggestions not to directly copy it for use in an application.

Second, just because this is an environmental application do not assume that you should not try of other types of projects. Do not read anything into this except that it is a kind of instruction guide.

# APPLICATION FOR FEDERAL ASSISTANCE SF 424 (R&R)

<b>3. DATE RECEIVED BY STATE</b>	<b>State Application Identifier</b>
<input type="text"/>	<input type="text"/>

**1. \* TYPE OF SUBMISSION**  
 Pre-application  Application  Changed/Corrected Application

**4. a. Federal Identifier**   
**b. Agency Routing Identifier**

**2. DATE SUBMITTED**   
**Applicant Identifier**

**5. APPLICANT INFORMATION** \* Organizational DUNS:

\* Legal Name:

Department:  Division:

\* Street1:   
Street2:

\* City:  County / Parish:

\* State:  Province:

\* Country:  \* ZIP / Postal Code:

Person to be contacted on matters involving this application

Prefix:  \* First Name:  Middle Name:   
\* Last Name:  Suffix:

\* Phone Number:  Fax Number:

Email:

**6. \* EMPLOYER IDENTIFICATION (EIN) or (TIN):**

**7. \* TYPE OF APPLICANT:**   
Other (Specify):

**Small Business Organization Type**  Women Owned  Socially and Economically Disadvantaged

**8. \* TYPE OF APPLICATION:**  New  Resubmission  Renewal  Continuation  Revision

If Revision, mark appropriate box(es).  
 A. Increase Award  B. Decrease Award  C. Increase Duration  D. Decrease Duration  
 E. Other (specify):

\* Is this application being submitted to other agencies? Yes  No  What other Agencies?

**9. \* NAME OF FEDERAL AGENCY:**

**10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:**   
TITLE:

**11. \* DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:**

**12. PROPOSED PROJECT:**  
\* Start Date  \* Ending Date  OR-5

**13. CONGRESSIONAL DISTRICT OF APPLICANT**

**14. PROJECT DIRECTOR/PRINCIPAL INVESTIGATOR**

Prefix:  \* First Name:   
\* Last Name:   
Position/Title:

\* Organization Name:   
Department:  Division:

\* Street1:   
Street2:

\* City:  County:

\* State:   
\* Country:  \* ZIP / Postal Code:

\* Phone Number:  Fax Number:

\* Email:

If you make your title too long our data systems will not be process your grant effectively. Keep it to 10 words if possible.

If you don't put your extension and we need to call you about something important--like a pdf didn't come through--we may not be able to reach you. When choosing the number think: if they need to reach me with an emergency question about my application what number do I want to give them?

<p><b>15. ESTIMATED PROJECT FUNDING</b></p> <p>a. Total Federal Funds Requested <input style="width:150px;" type="text" value="85,000.00"/></p> <p>b. Total Non-Federal Funds <input style="width:150px;" type="text" value="0.00"/></p> <p>c. Total Federal &amp; Non-Federal Funds <input style="width:150px;" type="text" value="85,000.00"/></p> <p>d. Estimated Program Income <input style="width:150px;" type="text" value="85,000.00"/></p>	<p><b>16. * IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?</b></p> <p>a. YES <input type="checkbox"/> THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE: <input style="width:100px;" type="text"/></p> <p>b. NO <input checked="" type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372; OR <input type="checkbox"/> PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**17. 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 18, Section 1001)**

\* 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.

**18. SFLLL or other Explanatory Documentation**

**19. Authorized Representative**

Prefix:  \* First Name:  Middle Name:

\* Last Name:  Suffix:

\* Position/Title:

\* Organization:

Department:  Division:

\* Street1:

Street2:

\* City:  County / Parish:

\* State:  Province:

\* Country:  \* ZIP / Postal Code:

\* Phone Number:  Fax Number:

\* Email:

**\* Signature of Authorized Representative**

Completed on submission to Grants.gov

**\* Date Signed**

Completed on submission to Grants.gov

**20. Pre-application**

# Supplemental Information Form

OMB Number: 0524-0039  
Expiration Date: 4/30/2009

Please complete this form in conjunction with the SF-424 Application for Federal Financial Assistance.

## 1. Funding Opportunity

\* Funding Opportunity Name

\* Funding Opportunity Number

## 2. Program to which you are applying

\* Program Code Name

TCRGP

\* Program Code

ZY

Watch out! If you put the wrong program code the system may loose your application!! We may not even know you sent it. It NEVER HURTS to call our office and double check what you sent with what we got prior to deadline .

## \* 3. Type of Applicant

U: Tribally Controlled Colleges and Universities (TCCUs)

## 4. Additional Applicant Types

Select one of the following if applicable

## 5. Supplemental Applicant Types (Check all that apply)

- Alaska Native-Serving Institution
- Cooperative Extension Service
- Hispanic-Serving Institution
- Historically Black College or University (other than 1890)
- Minority-Serving Institution
- Native Hawaiian-Serving Institution
- Public Nonprofit Junior or Community College
- Public Secondary School
- School of Forestry
- State Agricultural Experiment Station
- Tribal College (other than 1994)
- Veterinary School or College

## 6. HHS Account Information

\* Does the legal applicant have a Department of Health and Human Services' Payment Management System (DHHS-PMS) Payee Identification Number (PIN) for CSREES awards?

Yes  No

\* What is the DHHS-PMS PIN to be used in the event of an award?

Remember, NIFA grants are now in ASAP with the U.S. Treasury. It's a good idea to check with your financial office to be sure your institution's accounts and passwords are active.

## \* 7. Key Words

Water Quality, Reservation agriculture, Conservation

## 8. Conflict of Interest List

Key words are valuable try to use them if you can

achment

View Attachment

## RESEARCH & RELATED Other Project Information

1. \* Are Human Subjects Involved?  Yes  No

1.a. If YES to Human Subjects

Is the Project Exempt from Federal regulations?  Yes  No

Let's talk about IRBs--Yes, in theory all our projects involve human beings, but that's not what we are talking about. This is if you are going to conduct research on people. An example would be drawing blood to see if an exercise program lowered cholesterol levels. Not doing something like that? Don't say yes to question 1. If you are, have your IRB plan ready as you are writing your application. Or better still, submit your IRB with your application. Trying to get an IRB after the award is made can really slow your money down.

2. \* Are

2.a. If YES to Vertebrate Animals

By the way, there are four recognized exceptions to the IRB requirement. HHS has a whole page devoted to this: [http://grants.nih.gov/grants/policy/hs/faqs\\_aps\\_exempt.htm](http://grants.nih.gov/grants/policy/hs/faqs_aps_exempt.htm)

3. \* Is proprietary/privileged information included in the application?  Yes  No

4.a. \* Does this project have an actual or potential impact on the environment?  Yes  No

4.b. If yes, please explain:

4.c. If this project has an actual or potential impact on the environment, has an exemption been authorized or an environmental assessment (EA) or environmental impact statement (EIS) been performed?  Yes  No

4.d. If yes, please explain:

5. \* Is the research performance site designated, or eligible to be designated, as a historic place?  Yes  No

5.a. If yes, please explain:

6. \* Does this project involve activities outside of the Un  Yes  No

6.a. If yes, identify countries:

6.b. Optional Explanation:

7. \* Project Summary/Abstract

8. \* Project Narrative

9. Bibliography & References Cited

10. Facilities & Other Resources

11. Equipment

12. Other Attachments

Again, taking water samples from the Blue Stream that is described in this narrative would not warrant a yes answer to this question. Don't make extra work for yourself if it isn't necessary

For tutorials on grant planning check our Tribal Web Portal  
<http://nifa-connect.nifa.usda.gov/planning/>

Regarding the project "storyline" this template is not suggesting projects jump feet first into a local controversy--unless project directors feel the community would support them in that role. The message to take away is that capacity applications focus research on the reservation community, preferably of interest to people at the local level.

### **Project Summary**

**Type of application:** New

**Type of project:** Capacity Building Research

**Project Option:** Capacity Building Research Grant

**NIFA Science Priority:** Food Security and Natural Resource Conservation

**Project Directors:**

Rob Karrot –Green Giant Tribal College

Sylvia Salat—Oregon State University

**Title:** The Effects of Mining on Agriculture on the Green Reservation

Oregon's office of Environmental Policy recently authorized small- scale gold mining around the Green Reservation in Zigzag, Oregon. The chemicals used for small-scale mining often rely on the toxic substance chicolate to release gold from the soil. Chicolate has been associated with soil damage and infertility in high enough concentrations. The miners and state believe that the levels of chicolate released during the mining process are not high enough to cause soil and crop damage. The farmers on the Green Reservation, however, are reporting yield reductions which they trace to the new mining near their reservation. They are particularly concerned about the streams near the mining site that are also used for crop irrigation.

This student-conducted project will test the streams and soil around the reservation during peak and non-peak mining seasons to see if there is an increase in chicolate, beyond allowable EPA levels. A more detailed analysis will be done at Oregon State University to verify that the chicolate is not affecting root health or combining with other soil chemicals in a way that will result in lower soil productivity. The results will be presented to the Reservation farming community and the state and mining concerns for further evaluation and discussion.

For a tutorial on grant writing you can access  
<http://nifa-connect.nifa.usda.gov/organize/>

## Project Narrative

### Statement of Need, and Program Objectives

The producers of the Green Reservation farm beans, onions and peas. In 2010, Oregon's department of Environment issued a new policy that allows for small-scale gold mining in the Green Mountains, the Blue Streams run through these mountains and are a source of irrigation for the Reservation farmers. In 2011, the peas failed to thrive and the crop was one of the lowest on record. The onion and bean crops were also reduced.

The Reservation community, highly reliant on these crops, would like to know if the yield reduction was from chicolate leaching into the soil. Chicolate is a new compound used by the small-scale mining industry to remove gold from rockbeds. It has been linked to soil infertility at high exposure levels. Of particular concern is the double shifting operation of the mine during the main growing moths of May through August. The state and mining groups suggest that the drought could have caused the productivity loss.

This project seeks to evaluate the amount of chicolate in the water and soil and verify if it is within save levels.

One sentence: Here is what we are going to do.

Furthermore, recent research has suggested that chicolate, when combined with certain agricultural chemicals, may form an herbicide-like compound that may damage crops

even in small amounts. Researchers at Oregon State University will test soil samples from the Green Reservation farms to see if this compound has been formed.

Overall Project Plan:

Here is our second follow up activity.

This is a field experiment conducted as an extension effort to the Reservation grower community. The participating farmers will have the process explained thoroughly. Students will have the opportunity to do in-depth field work taking soil and water samples. They will learn the importance of accurate measurement and record keeping. They will also learn how to work with a grower community as scientific technicians, explaining their processes.

Data will be collected twice—once in the 2012-2013 growing season and once in the 2013-2014 growing season. During the winter, our partner, Oregon State University will do in-depth analysis of the soil interaction with irrigation water from the blue stream. Students will visit the Oregon State University and shadow scientists running analysis of their samples taken during the summer. This will serve as a recruitment tool for the students to attend a 4-year program.

This project could serve as a model for working with the Reservation community on scientific projects that also touch on community relations and public policy. It would also serve as an example of how to conduct research with students.

This project could also have important implications for good community relations between the families employed by the mine and those farming crops on the Green

Reservation. If there is no soil damage, this will reassure the growers. If there is soil damage, steps can be taken by the mining community to address the problem and compensate the growers.

### Research Projects:

Okay, so how is overall project plan different from research projects? Let the first be an overview of the project with a little bit of soft selling as to why it should be funded. Use the second to give details about the actual research project and how the experiments will be carried out.

This project will involve testing the soil and water during the spring, just before mining operation begin double shifts in April and again in August when double shifting of mining operations has been on-going for 4-months. In spring, before planting, we will take soil and water tests. We will also take soil and plant samples for evaluation at Oregon State. The samples for pre-growing season will be weeds and volunteer plants in soil. The plant samples in August will be from crops near harvesting.

Students will collect and evaluate water samples at six locations, at varying distances from the blue stream and key irrigation points. Student evaluations will involve basic chemical analysis of water and soil samples at each site. We will also work with the local growers and their buyers to get an evaluation of the quality of growing season in 2012 and 2013.

Evaluations will be done using basic soil and water sampling kits on the Reservation and data will be recorded on paper with the full record being entered into an Excel file for use by Green Giant researchers.

Students will also collect soil and plant samples, following the guidelines provide by Oregon State University researchers and technicians. The analysis will done in the winter when the university has a break in chemical analysis from other projects. There will also be an evaluation of any chocolate residue in plant tissues, as well as testing for

other chemicals that could have been formed when chocolate came in contact with other farm chemicals. In-depth analysis will use a gas chromatograph and other instrumentation as deemed appropriate by Oregon State University.

On some of the days of these in-depth analyses, Green Giant students who took the samples will be able to shadow technicians and they use scientific instruments to do in-depth evaluation and faculty will provide a campus tour and in-depth discussion of their work as a researcher.

Analysis of final data and results will be done by Green Giant Tribal College Faculty and Oregon State University. It will mainly be done by the project directors, with the students providing assistance as appropriate.

#### Participant Commitment and Resources:

The Green Giant Tribal College students will collect samples through the reservation near farming communities and at source points for the irrigation system. They will also collect soil and plant samples for more intensive evaluation at Oregon State University. In the winter the sample plants will be weeds and in the summer they will be actual crops. The project directors will recruit Reservation farmers for participation in the project and keep them involved with updates on results. They will also work with state and mining officials to help them understand the findings.

Oregon State University will provide in-depth chemical testing of soils and plants for chocolate residue and chemical combinations from chocolate interacting with other farm chemicals.

In addition, Oregon State University laboratory technical staff will provide a shadowing day for all Green Giant Tribal College students who collect data as part of the project. Oregon State University co-project director Sylvia Salat will give these students campus tours and discuss her work as a soil chemistry scientist and faculty member.

This is where things get tricky. The research may not be as important as student learning or building relationships with the Reservation or with the 1862 Land Grant. You can put how the data will be evaluated, as this writer did, but you would also want to include how you would evaluate the growing confidence and skills of the students who participated in this project and the value of the data gained to the Reservation. That would be part of your evaluation.

### Evaluation Methodologies and Proposed Outcomes:

In addition to project results we will evaluate how much the students learn by pre-testing and post-testing their knowledge of data gathering, competency with field instruments and microscopes and the basics of data analysis. The project directors will keep track of progress milestones for each student, including their confidence in presenting scientific findings.

At the project's conclusion, the project directors will survey the farming and mining community to see how well the research meets their expectations as a means to finding resolutions that allow both industries to continue productively together. At a quarterly stakeholder meetings, the project directors will evaluate how the community feels about the research being conducted and whether the findings are helping the mining and farming communities reach consensus. We will also the students to self evaluate how easily were they able to collaborate, plan and execute the research, how do they feel about the quality of work they did and would they consider such a partnership again.

The results of the actual research will be evaluated by the Oregon Environmental Department to ensure they are replicable. We will also ask officials with the department to assess whether projects such as this can be an effective means of added helpful information to disputes on resource issues.

This project will benefit the college by increasing its capacity to conduct research of important to the Reservation. It will provide students an opportunity to gain experience conducting field research and using basic scientific instruments to evaluate soil and water quality. It will also expose them to a 4-year institution and advanced research. Faculty will improve their relationship with both the Reservation and the neighboring 1862 Land Grant.

The Reservation community will gain an important knowledge about the mine's effect on their farm productivity. An important challenge will be how to handle the results should chocolate be found in the soil affecting crops. We have enlisted the help of a mediator within Oregon's Environmental Department to help address any issues a positive result for chocolate

Your literature search would be much, much better than this. Any good research application should have data behind it.  
That's true for social science, human nutrition or any other project type. Panelists love well-planned projects.

Literature Review:

"Does Chocolate Affect Crop Development?" Bao, J.U. Scientific Journal of Horticulture, Issue 4. Vol. 3 2010

"Case Study of Chocolate Run-Off Causing Crop Damage in South America" Bing, Doug, et al Crop Science Review, Issue 9, Vol. 2, 2009

"Chocolate Is Safe for Mining Operation Near Farms" Jung, K.I. et al Chemical Safety Review, 2009

Trace Elements of Chocolate and Crop Productivity, Chapter, Agronomic Science with Jones, Ph.D., DiBarry, PhD, and Herber Ph.D.

"Chocolate Safety Specifications" Environmental Protection Agency, Policy Paper # 240, published 2007

## RESEARCH & RELATED Senior/Key Person Profile (Expanded)

PROFILE - Project Director/Principal Investigator			
Prefix:	<input type="text"/>	* First Name: Rob	Middle Name: <input type="text"/>
* Last Name:	Karot	Suffix:	<input type="text"/>
Position/Title:	<input type="text"/>	Department:	<input type="text"/>
Organization Name:	Green Giant Community College	Division:	<input type="text"/>
* Street1:	1 Green Bean Way		
Street2:	<input type="text"/>		
* City:	Zigzag	County/ Parish:	<input type="text"/>
* State:	OR: Oregon	Province:	<input type="text"/>
* Country:	USA: UNITED STATES	* Zip / Postal Code:	97049-1111
* Phone Number:	503-444-1112	Fax Number:	<input type="text"/>
* E-Mail:	rkarrot@ggtc.edu		
Credential, e.g., agency login:	<input type="text"/>		
* Project Role:	PD/PI	Other Project Role Category:	<input type="text"/>
Degree Type:	<input type="text"/>		
Degree Year:	<input type="text"/>		
* Attach Biographical Sketch	Rob Karrot.doc		
Attach Current & Pending Support	<input type="text"/>		

Fair warning: Anyone you list as a senior or key person will have to submit: 1) a resume, 2) a conflict of interest and 3) current and pending support as part of the application.  
Include anyone you wish, but make sure they can provide this information if you do so.

PROFILE - Project Director/Principal Investigator			
Prefix:	<input type="text"/>	* First Name: Sylvia	Middle Name: <input type="text"/>
* Last Name:	Salat	Suffix:	<input type="text"/>
Position/Title:	<input type="text"/>	Department:	<input type="text"/>
Organization Name:	Oregon State University	Division:	<input type="text"/>
* Street1:	111 Research Way		
Street2:	<input type="text"/>		
* City:	Eugene	County/ Parish:	<input type="text"/>
* State:	OR: Oregon	Province:	<input type="text"/>
* Country:	USA: UNITED STATES	* Zip / Postal Code:	97331-1111
* Phone Number:	503-555-2902	Fax Number:	<input type="text"/>
* E-Mail:	salat@osu.edu		
Credential, e.g., agency login:	<input type="text"/>		
* Project Role:	Co-PD/PI	Other Project Role Category:	<input type="text"/>
Degree Type:	<input type="text"/>		
Degree Year:	<input type="text"/>		
* Attach Biographical Sketch	Salat.docx	<input type="button" value="Add Attachment"/>	<input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>
Attach Current & Pending Support	<input type="text"/>	<input type="button" value="Add Attachment"/>	<input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>

To ensure proper performance of this form; after adding 20 additional Senior/ Key Persons; please save your application, close the Adobe Reader, and reopen it.

## RESEARCH & RELATED PERSONAL DATA

### Project Director/Principal Investigator and Co-Project Director(s)/Co-Principal Investigator(s)

The Federal Government has a continuing commitment to monitor the operation of its review and award processes to identify and address any inequities based on gender, race, ethnicity, or disability of its proposed PDs/Pis and co-PDs/Pis. To gather information needed for this important task, the applicant should submit the requested information for each identified PD/PI and co-PDs/Pis with each proposal. Submission of the requested information is voluntary and is not a precondition of award. However, information not submitted will seriously undermine the statistical validity, and therefore the usefulness, of information received from others. Any individual not wishing to submit some or all the information should check the box provided for this purpose. Upon receipt of the application, this form will be separated from the application. This form will not be duplicated, and it will not be a part of the review process. Data will be confidential.

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#### Project Director/Principal Investigator

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**Prefix:**  **\* First Name:**  **Middle Name:**

**\* Last Name:**  **Suffix:**

**Gender:**

---

**Race (check all that apply):**

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or Other Pacific Islander
- White
- Do Not Wish to Provide

**Ethnicity:**

**Disability Status (check all that apply):**

- Hearing
- Visual
- Mobility/Orthopedic Impairment
- Other
- None
- Do Not Wish to Provide

**Citizenship:**

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**Rob Karrot**  
Greentree, Oregon  
Phone: 503-444-1112  
Email: rkarrot@ggtc.edu

**Career Objective:**

Seeking a position in a reputed health organization to accommodate myself as a science educator.

**Summary of Qualifications:**

- Strong interest in agronomics
- Excellent written and verbal communication skills.
- Knowledge of computers and word processing.
- Ability to handle a variety of tasks.

**Work Experience:**

**Green Giant Tribal College, Zigzag, OR**

Faculty –Agriculture and Environmental Science (2008 to Present)

**Job Description:**

- Conducted classes in agronomics, hydrology and natural sciences a 2-year school
- Collaborated with health specialists.
- Provided information to individuals in the community about how to maintain crops and farm productivity

**University of Florida Department of Agriculture, Gainesville, FL**

Crop Scientist (1992 to 2008)

**Job Description:**

- Collected and analyzed data from sweet corn and sugar farms
- Conducted environmental surveys and collaborated with residential and grower communities
- Developed and maintained cooperation between public, civic, professional, and voluntary agencies.
- Conducted appropriate research for on crop pests and disease.
- Assisted in the design and utilization of program evaluation and needs assessment tools.

**Education:**

**Doctorate in Farm and Community Development**

University of Florida, Miami (1992)

**Masters of Science** in Agronomics

University of Montana , (1990)

**Bachelors of Science** in Plant Science

University of Florida, (1989)

Sylvia Salat  
123 Main Street, Redtree, OR 50339  
Home: (503) 555-1234  
Cell: (503) 555-1235

### **Specialty**

Plant and soil interactions, with a focus on residual chemicals in water

### **Experience**

**Oregon State University, Chemistry Department** 1996 - Present  
Faculty, Lead Researcher, Soil Science

**University of California—Irvine** 1988 - 1996  
Soil Chemist

### **Training**

**Research Fellow, Environmental Lab**  
Harvard School of Chemical Analysis

**Peace Corp, Volunteer** 1986 – 1988  
Bopahl, India

**Post-Doctorate** 1984 – 1986  
Temple University, Philadelphia, PA

### **Education**

**Doctorate, Environmental Toxicology** 1984  
Temple University, Philadelphia, PA

**B.A., Biology** 1981  
Columbia University, New York, NY

### **Research & Publications**

“Trace Elements of Chocolate and Crop Productivity”, Chapter 5, *Agronomic Science with Jones, Ph.D., DiBarry, PhD, and Herber Ph.D.* 2011

“Prevention of Chemical Run-Off of Toxic Barium in a Chemical Processing Plant”, *Modern Toxicology*, Vol. 7, No. 4 pp. 44-56 Hinton, Ph.D., Webber, Ph.D., Hildabrand, Ph.D. 2011

### **Professional Affiliations**

American Association of Toxicologists

**CURRENT AND PENDING SUPPORT**

1. Record information for active and pending projects, including this proposal. (Concurrent submission of a proposal to other organizations will not prejudice its review by CSREES.)
2. All current efforts to which project director(s) and other senior personnel have committed a portion of their time must be listed, whether or not salary for the person involved is included in the budgets of the various projects.
3. Provide analogous information for all proposed work which is being considered by, or which will be submitted in the near future to, other possible sponsors including other USDA programs.

NAME (List/PD #1 first)	SUPPORTING AGENCY AND AGENCY ACTIVE AWARD/PENDING PROPOSAL NUMBER	TOTAL \$ AMOUNT	EFFECTIVE AND EXPIRATION DATES	% OF TIME COMMITTED	TITLE OF PROJECT
Karrot, Robert	<b>Current:</b> Tribal College Equity Grant	\$97,500	7/1/2011 7/10/2012	20 %	Science Education at Green Giant Tribal College
				30 %	Project Next Steps
Robert Karrot	<b>Pending:</b> 1994 Land Grant Research	\$85,000	9/1/2012 9/1/2014	10% Project Coordination	The Effects of Mining on Agriculture on the Green Reservation
	Tribal College Equity Grant	\$97,500	7/1/2012 7/10/2014	20 %	Science Education at Green Giant Tribal College

When the award division reviews these forms, they often just read down percent of time committed, and if it equals more than 100 percent they reject it. This can slow your application down. You can make a note in the form that some of your projects are both current and pending if they are continuations.

**CURRENT AND PENDING SUPPORT**

1. Record information for active and pending projects, including this proposal. (Concurrent submission of a proposal to other organizations will not prejudice its review by CSREES.)
2. All current efforts to which project director(s) and other senior personnel have committed a portion of their time must be listed, whether or not salary for the person involved is included in the budgets of the various projects.
3. Provide analogous information for all proposed work which is being considered by, or which will be submitted in the near future to, other possible sponsors including other USDA programs.

NAME (List/PD #1 first)	SUPPORTING AGENCY AND AGENCY ACTIVE AWARD/PENDING PROPOSAL NUMBER	TOTAL \$ AMOUNT	EFFECTIVE AND EXPIRATION DATES	% OF TIME COMMITTED	TITLE OF PROJECT
Salat, Silvia	<b>Current:</b> Extension IPM Coordination and Support Program 2010-41534-210987	\$307,500	7/1/2010 7/10/2012	40 %	Extension Integrated Pest Management Coordination at Oregon State
	Small Business Innovation Research: Air, Soil & Water Resources 2010-33610-99990	\$75,000	8/15/2010 8/14/2013	30 %	Farming and Industry Partnerships
Salat, Sylvia	<b>Pending:</b> 1994 Land Grant Research	\$85,000	9/1/2012 9/1/2014	5% Project Coordination	The Effects of Mining on Agriculture on the Green Reservation





**RESEARCH & RELATED BUDGET - SECTION A & B, BUDGET PERIOD 1**

\* ORGANIZATIONAL DUNS:

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization:

\* Start Date:  \* End Date:  Budget Period

We have a nifty tutorial on writing budgets. It's on our Tribal Web Portal. You can access it at this web address:  
<http://nifa-connect.nifa.usda.gov/budget/>

A. Senior/Key Person				* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)			
Prefix	* First Name	Middle Name	* Last Name	Suffix	* Project Role	Base Salary (\$)	Cal. Months	Acct. Months	
1.	Rob		Karot		PD/PI				
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.	Total Funds requested for all Senior Key Persons in the attached file								

B. Other Personnel				* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)
* Number of Personnel	* Project Role	Cal. Months	Acct. Months	* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)
	Post Doctoral Associates					
	Graduate Students					
2	Undergraduate Students	6.00		13,600.00	1,272.00	14,872.00
	Secretarial/Clerical					
2	Total Number Other Personnel					
	Total Other Personnel					14,872.00
	and Fringe Benefits (A+B)					17,872.00

Close Form

RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 1

\* ORGANIZATIONAL DUNS: [ ]

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization: Green Giant Tribal College

\* Start Date: 09/01/2012 \* End Date: 08/31/2014 Budget Period 1

C. Equipment Description

List items and dollar amount for each item exceeding \$5,000

	Equipment item	* Funds Requested (\$)
1.	[ ]	[ ]
2.	[ ]	[ ]
3.	[ ]	[ ]
4.	[ ]	[ ]
5.	[ ]	[ ]
6.	[ ]	[ ]
7.	[ ]	[ ]
8.	[ ]	[ ]
9.	[ ]	[ ]
10.	[ ]	[ ]
11.	Total funds requested for all equipment listed in the attached file	[ ]
	Total Equipment	[ ]

Additional Equipment: [ ]

Add Attachment

Delete Attachment

View Attachment

D. Travel

Funds Requested (\$)

1.	Domestic Travel Costs ( Incl. Canada, Mexico and U.S. Possessions)	5,000.00
2.	Foreign Travel Costs	[ ]
	Total Travel Cost	5,000.00

E. Participant/Trainee Support Costs

Funds Requested (\$)

1.	Tuition/Fees/Health Insurance	[ ]
2.	Stipends	[ ]
3.	Travel	[ ]
4.	Subsistence	[ ]
5.	Other [ ]	[ ]
[ ]	Number of Participants/Trainees	Total Participant/Trainee Support Costs [ ]

RESEARCH & RELATED Budget {C-E} (Funds Requested)

Close Form

RESEARCH & RELATED BUDGET - SECTION F-K, BUDGET PERIOD 1

\* ORGANIZATIONAL DUNS: [ ]

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization: Green Giant Tribal College

\* Start Date: 09/01/2012 \* End Date: 08/31/2014 Budget Period 1

F. Other Direct Costs	Funds Requested (\$)
1. Materials and Supplies	7,268.00
2. Publication Costs	
3. Consultant Services	
4. ADP/Computer Services	
5. Subawards/Consortium/Contractual Costs	
6. Equipment or Facility Rental/User Fees	
7. Alterations and Renovations	
8. Community Relations	6,425.00
9. [ ]	
10. [ ]	
<b>Total Other Direct Costs</b>	<b>13,693.00</b>

G. Direct Costs	Funds Requested (\$)
<b>Total Direct Costs (A thru F)</b>	<b>36,565.00</b>

H. Indirect Costs	Indirect Cost Rate (%)	Indirect Cost Base (\$)	* Funds Requested (\$)
1. [ ]			
2. [ ]			
3. [ ]			
4. [ ]			
<b>Total Indirect Costs</b>			

Cognizant Federal Agency [ ]  
(Agency Name, POC Name, and POC Phone Number)

I. Total Direct and Indirect Costs	Funds Requested (\$)
<b>Total Direct and Indirect Institutional Costs (G + H)</b>	<b>36,565.00</b>

J. Fee	Funds Requested (\$)

K. \* Budget Justification Budget Justification applied 1.docx [Add Attachment] [Delete Attachment] [View Attachment]  
(Only attach one file.)



Close Form

RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 2

\* ORGANIZATIONAL DUNS: [ ]

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization: Green Giant Tribal College

\* Start Date: 09/01/2013 \* End Date: 08/31/2014 Budget Period 2

C. Equipment Description

List items and dollar amount for each item exceeding \$5,000

	Equipment item	* Funds Requested (\$)
1.	[ ]	[ ]
2.	[ ]	[ ]
3.	[ ]	[ ]
4.	[ ]	[ ]
5.	[ ]	[ ]
6.	[ ]	[ ]
7.	[ ]	[ ]
8.	[ ]	[ ]
9.	[ ]	[ ]
10.	[ ]	[ ]
11.	Total funds requested for all equipment listed in the attached file	[ ]
	Total Equipment	[ ]

Additional Equipment: [ ]

Add Attachment

Delete Attachment

View Attachment

D. Travel

Funds Requested (\$)

1.	Domestic Travel Costs ( Incl. Canada, Mexico and U.S. Possessions)	5,000.00
2.	Foreign Travel Costs	[ ]
	Total Travel Cost	5,000.00

E. Participant/Trainee Support Costs

Funds Requested (\$)

1.	Tuition/Fees/Health Insurance	[ ]
2.	Stipends	[ ]
3.	Travel	[ ]
4.	Subsistence	[ ]
5.	Other [ ]	[ ]
[ ]	Number of Participants/Trainees	Total Participant/Trainee Support Costs [ ]

RESEARCH & RELATED Budget {C-E} (Funds Requested)

Close Form

RESEARCH & RELATED BUDGET - SECTION F-K, BUDGET PERIOD 2

\* ORGANIZATIONAL DUNS: [ ]

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization: Green Giant Tribal College

\* Start Date: 09/01/2013 \* End Date: 08/31/2014 Budget Period 2

F. Other Direct Costs

	Funds Requested (\$)
1. Materials and Supplies	[ ]
2. Publication Costs	[ ]
3. Consultant Services	[ ]
4. ADP/Computer Services	[ ]
5. Subawards/Consortium/Contractual Costs	[ ]
6. Equipment or Facility Rental/User Fees	[ ]
7. Alterations and Renovations	[ ]
8. [ ]	[ ]
9. [ ]	[ ]
10. [ ]	[ ]

Total Other Direct Costs [ ]

G. Direct Costs

Funds Requested (\$) Total Direct Costs (A thru F) 22,935.00

H. Indirect Costs

Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	* Funds Requested (\$)
1. [ ]	[ ]	[ ]	[ ]
2. [ ]	[ ]	[ ]	[ ]
3. [ ]	[ ]	[ ]	[ ]
4. [ ]	[ ]	[ ]	[ ]

Total Indirect Costs [ ]

Cognizant Federal Agency [ ]

(Agency Name, POC Name, and POC Phone Number)

I. Total Direct and Indirect Costs

Funds Requested (\$) Total Direct and Indirect Institutional Costs (G + H) 22,935.00

J. Fee

Funds Requested (\$) [ ]

K. \* Budget Justification Budget Justification applied 1.docx

(Only attach one file.)

Add Attachment

Delete Attachment

View Attachment

## RESEARCH & RELATED BUDGET - Cumulative Budget

		Totals (\$)
<b>Section A, Senior/Key Person</b>		6,063.00
<b>Section B, Other Personnel</b>		29,744.00
Total Number Other Personnel	4	
<b>Total Salary, Wages and Fringe Benefits (A+B)</b>		35,807.00
<b>Section C, Equipment</b>		
<b>Section D, Travel</b>		10,000.00
1. Domestic	10,000.00	
2. Foreign		
<b>Section E, Participant/Trainee Support Costs</b>		
1. Tuition/Fees/Health Insurance		
2. Stipends		
3. Travel		
4. Subsistence		
5. Other		
6. Number of Participants/Trainees		
<b>Section F, Other Direct Costs</b>		13,693.00
1. Materials and Supplies	7,268.00	
2. Publication Costs		
3. Consultant Services		
4. ADP/Computer Services		
5. Subawards/Consortium/Contractual Costs		
6. Equipment or Facility Rental/User Fees		
7. Alterations and Renovations		
8. Other 1	6,425.00	
9. Other 2		
10. Other 3		
<b>Section G, Direct Costs (A thru F)</b>		59,500.00
<b>Section H, Indirect Costs</b>		
<b>Section I, Total Direct and Indirect Costs (G + H)</b>		59,500.00
<b>Section J, Fee</b>		

Budget Justification

Green Giant Community College

Mining and Agriculture Investigation

<b>Expense—Salary</b>	<b>Description</b>	<b>Amount</b>
PD salary contribution Jeff Karrot	Partial salary and benefits for instructional time and supervision of students	\$3,000 for year one and \$3,063 for two years totaling  \$6,063 for project
2-Undergraduate Interns	Run soil and water samples, pull soil samples for lab analysis – part-time salary and benefits	\$14,872 for 2 years totaling \$29,744 for project
Total Salary		\$35,807 for 2 years
<b>Expense--Equipment</b>	<b>Description</b>	<b>Amount</b>
Water Quality Kits- 100 count	To test water for target contaminants from mine	\$2,000
Soil Test Kits—100 count	To do localized soil testing	\$5,100
Soil Samplers—4 count	To pull soil samples for more detailed analysis at the land grant	\$7,268
<b>Expense--Other</b>	<b>Description</b>	<b>Amount</b>
Community Outreach	Local radio spots, newspaper announcement and community meeting to explain project and gain producers' support	\$6,425
Travel	Given the remote nature of these sites farms may be more than 2-3 hours apart. Extra travel money is required.	\$10,000
Total funds for primary project site:		\$59,500
Note: sub-award narrative will provide details for that portion of award		

RESEARCH & RELATED BUDGET - SECTION A & B, BUDGET PERIOD 1

OMB Number: 4040-0001  
Expiration Date: 06/30/2011

\* ORGANIZATIONAL DUNS:

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization:

\* Start Date:  \* End Date:  Budget Period 1

A. Senior/Key Person

Prefix	* First Name	Middle Name	* Last Name	Suffix	* Project Role	Base Salary (\$)	Cal. Months	Acad. Months	Sum. Months	* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)	
1.	<input type="text" value="Sylvia"/>	<input type="text"/>	<input type="text" value="Salat"/>	<input type="text"/>	<input type="text" value="PD/PI"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="5,000.00"/>	<input type="text" value="0.00"/>	<input type="text" value="5,000.00"/>	
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
6.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
7.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
8.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
9.	Total Funds requested for all Senior Key Person										<input type="text"/>	<input type="text"/>	<input type="text"/>
											<b>Total Senior/Key Person</b>	<input type="text" value="5,000.00"/>	

REMEMBER--EVERY sub-award will need a budget and a budget narrative. In this case we have just our 1890 partner. Let's say we also wanted to include the Green Reservation's Water Conservation District. If they got money they would need a budget, a budget justification a signed letter of commitment and statement of work. Also, if the Water District Conservation manager is going to be a key personnel or give the students a class or training you would want to include his resume, a conflict of interest and a current and pending. Adding people makes your project better. Adding people also make you work harder on your application. It's work that pays off, however. Want to know more? Check the tutorial. <http://nifa-connect.nifa.usda.gov/budget/>

Additional Senior Key Persons:

B. Other Personnel

* Number of Personnel		Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)
<input type="text"/>	Post Doctoral Associates	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	Graduate Students	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	Undergraduate Students	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	Secretarial/Clerical	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="1"/>	Laboratory Technician	<input type="text" value="5,000.00"/>	<input type="text" value="0.00"/>	<input type="text" value="5,000.00"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="1"/>	<b>Total Number Other Personnel</b>	<b>Total Other Personnel</b>		<input type="text" value="5,000.00"/>
<b>Total Salary, Wages and Fringe Benefits (A+B)</b>				<input type="text" value="10,000.00"/>

## RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 1

\* ORGANIZATIONAL DUNS:

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization:

\* Start Date:  \* End Date:  Budget Period 1

### C. Equipment Description

List items and dollar amount for each item exceeding \$5,000

Equipment item	* Funds Requested (\$)
1. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
2. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
3. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
4. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
5. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
6. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
7. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
8. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
9. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
10. <input style="width: 95%;" type="text"/>	<input style="width: 5%;" type="text"/>
<b>11. Total funds requested for all equipment listed in the attached file</b>	<input style="width: 5%;" type="text"/>
<b>Total Equipment</b>	<input style="width: 5%;" type="text"/>

Additional Equipment:

### D. Travel

1. Domestic Travel Costs (Incl. Canada, Mexico and U.S. Possessions)	<input style="width: 95%;" type="text"/>	<b>Funds Requested (\$)</b>	<input style="width: 5%;" type="text"/>
2. Foreign Travel Costs	<input style="width: 95%;" type="text"/>		<input style="width: 5%;" type="text"/>
<b>Total Travel Cost</b>	<input style="width: 95%;" type="text"/>		<input style="width: 5%;" type="text"/>

### E. Participant/Trainee Support Costs

1. Tuition/Fees/Health Insurance	<input style="width: 95%;" type="text"/>	<b>Funds Requested (\$)</b>	<input style="width: 5%;" type="text"/>
2. Stipends	<input style="width: 95%;" type="text"/>		<input style="width: 5%;" type="text"/>
3. Travel	<input style="width: 95%;" type="text"/>		<input style="width: 5%;" type="text"/>
4. Subsistence	<input style="width: 95%;" type="text"/>		<input style="width: 5%;" type="text"/>
5. Other	<input style="width: 95%;" type="text"/>		<input style="width: 5%;" type="text"/>
<b>Total Participant/Trainee Support Costs</b>	<input style="width: 95%;" type="text"/>		<input style="width: 5%;" type="text"/>

RESEARCH & RELATED Budget {C-E} (Funds Requested)

**RESEARCH & RELATED BUDGET - SECTION F-K, BUDGET PERIOD 1**

\* ORGANIZATIONAL DUNS: \_\_\_\_\_

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization:

\* Start Date:  \* End Date:  Budget Period 1

F. Other Direct Costs	Funds Requested (\$)
1. Materials and Supplies	<input type="text"/>
2. Publication Costs	<input type="text"/>
3. Consultant Services	<input type="text"/>
4. ADP/Computer Services	<input type="text"/>
5. Subawards/Consortium/Contractual Costs	<input type="text"/>
6. Equipment or Facility Rental/User Fees	<input type="text" value="2,750.00"/>
7. Alterations and Renovations	<input type="text"/>
8. _____	<input type="text"/>
9. _____	<input type="text"/>
10. _____	<input type="text"/>
<b>Total Other Direct Costs</b>	<input type="text" value="2,750.00"/>

**G. Direct Costs** **Funds Requested (\$)**  
**Total Direct Costs (A thru F)**

H. Indirect Costs	Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	* Funds Requested (\$)
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Total Indirect Costs</b>				<input type="text"/>

**Cognizant Federal Agency**   
 (Agency Name, POC Name, and POC Phone Number)

**I. Total Direct and Indirect Costs** **Funds Requested (\$)**  
**Total Direct and Indirect Institutional Costs (G + H)**

**J. Fee** **Funds Requested (\$)**

**K. \* Budget Justification**

(Only attach one file.)

**RESEARCH & RELATED BUDGET - SECTION A & B, BUDGET PERIOD 2**

OMB Number: 4040-0001  
Expiration Date: 06/30/2011

\* ORGANIZATIONAL DUNS:

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization:

\* Start Date:  \* End Date:  Budget Period 2

**A. Senior/Key Person**

	Prefix	* First Name	Middle Name	* Last Name	Suffix	* Project Role	Base Salary (\$)	Cal. Months	Acad. Months	Sum. Months	* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)
1.		Sylvia		Salat		PD/PI					5,000.00	0.00	5,000.00
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.	<b>Total Funds requested for all Senior Key Persons in the attached file</b>												
	<b>Total Senior/Key Person</b>												5,000.00

Additional Senior Key Persons:

Add Attachment

Delete Attachment

View Attachment

**B. Other Personnel**

* Number of Personnel	* Project Role	Cal. Months	Acad. Months	Sum. Months	* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)
<input type="text"/>	Post Doctoral Associates						
<input type="text"/>	Graduate Students						
<input type="text"/>	Undergraduate Students						
<input type="text"/>	Secretarial/Clerical						
1	Laboratory Technician				5,000.00	0.00	5,000.00
<input type="text"/>							
<input type="text"/>							
<input type="text"/>							
<input type="text"/>							
<input type="text"/>							
1	<b>Total Number Other Personnel</b>						
							<b>Total Other Personnel</b>
							5,000.00
							<b>Total Salary, Wages and Fringe Benefits (A+B)</b>
							10,000.00

**RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 2**

\* ORGANIZATIONAL DUNS:

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization:

\* Start Date:  \* End Date:  Budget Period 2

**C. Equipment Description**

List items and dollar amount for each item exceeding \$5,000

Equipment item	* Funds Requested (\$)
1. <input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>
6. <input type="text"/>	<input type="text"/>
7. <input type="text"/>	<input type="text"/>
8. <input type="text"/>	<input type="text"/>
9. <input type="text"/>	<input type="text"/>
10. <input type="text"/>	<input type="text"/>
<b>11. Total funds requested for all equipment listed in the attached file</b>	<input type="text"/>
<b>Total Equipment</b>	<input type="text"/>

Additional Equipment:

**D. Travel**

1. Domestic Travel Costs (Incl. Canada, Mexico and U.S. Possessions)	<input type="text"/>	<b>Funds Requested (\$)</b>	<input type="text"/>
2. Foreign Travel Costs	<input type="text"/>		<input type="text"/>
<b>Total Travel Cost</b>	<input type="text"/>		<input type="text"/>

**E. Participant/Trainee Support Costs**

1. Tuition/Fees/Health Insurance	<input type="text"/>	<b>Funds Requested (\$)</b>	<input type="text"/>
2. Stipends	<input type="text"/>		<input type="text"/>
3. Travel	<input type="text"/>		<input type="text"/>
4. Subsistence	<input type="text"/>		<input type="text"/>
5. Other	<input type="text"/>		<input type="text"/>
<input type="text"/> <b>Number of Participants/Trainees</b>	<input type="text"/> <b>Total Participant/Trainee Support Costs</b>		<input type="text"/>

RESEARCH & RELATED Budget {C-E} (Funds Requested)

**RESEARCH & RELATED BUDGET - SECTION F-K, BUDGET PERIOD 2**

\* ORGANIZATIONAL DUNS: \_\_\_\_\_

\* Budget Type:  Project  Subaward/Consortium

Enter name of Organization:

\* Start Date:  \* End Date:  Budget Period 2

F. Other Direct Costs	Funds Requested (\$)
1. Materials and Supplies	<input type="text"/>
2. Publication Costs	<input type="text"/>
3. Consultant Services	<input type="text"/>
4. ADP/Computer Services	<input type="text"/>
5. Subawards/Consortium/Contractual Costs	<input type="text"/>
6. Equipment or Facility Rental/User Fees	<input type="text" value="2,750.00"/>
7. Alterations and Renovations	<input type="text"/>
8. _____	<input type="text"/>
9. _____	<input type="text"/>
10. _____	<input type="text"/>
<b>Total Other Direct Costs</b>	<input type="text" value="2,750.00"/>

**G. Direct Costs** **Funds Requested (\$)**  
**Total Direct Costs (A thru F)**

H. Indirect Costs	Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	* Funds Requested (\$)
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Total Indirect Costs</b>				<input type="text"/>

**Cognizant Federal Agency**   
 (Agency Name, POC Name, and POC Phone Number)

**I. Total Direct and Indirect Costs** **Funds Requested (\$)**  
**Total Direct and Indirect Institutional Costs (G + H)**

**J. Fee** **Funds Requested (\$)**

**K. \* Budget Justification**      
 (Only attach one file.)

## RESEARCH & RELATED BUDGET - Cumulative Budget

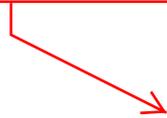
	Totals (\$)	
<b>Section A, Senior/Key Person</b>	10,000.00	
<b>Section B, Other Personnel</b>	10,000.00	
Total Number Other Personnel	2	
<b>Total Salary, Wages and Fringe Benefits (A+B)</b>	20,000.00	
<b>Section C, Equipment</b>		
<b>Section D, Travel</b>		
1. Domestic		
2. Foreign		
<b>Section E, Participant/Trainee Support Costs</b>		
1. Tuition/Fees/Health Insurance		
2. Stipends		
3. Travel		
4. Subsistence		
5. Other		
6. Number of Participants/Trainees		
<b>Section F, Other Direct Costs</b>	5,500.00	
1. Materials and Supplies		
2. Publication Costs		
3. Consultant Services		
4. ADP/Computer Services		
5. Subawards/Consortium/Contractual Costs		
6. Equipment or Facility Rental/User Fees	5,500.00	
7. Alterations and Renovations		
8. Other 1		
9. Other 2		
10. Other 3		
<b>Section G, Direct Costs (A thru F)</b>	25,500.00	
<b>Section H, Indirect Costs</b>		
<b>Section I, Total Direct and Indirect Costs (G + H)</b>	25,500.00	
<b>Section J, Fee</b>		

Notice Dr. Salat isn't getting much money. She's in a minor role, providing research design advice and mentoring students. It's the same with her technician. Big difference from the Tribal College Research Grants you may know. Remember, the focus is on community and students in this type of project. Less money, true, but more focused on building capacity and empowering people.

Budget Justification

Oregon State University

Mining and Agriculture Investigation



Expense—Salary	Description	Amount
Co-PD Compensation Sylvia Salat	Consultation on experiment design and help with data analysis  Mentoring of students	\$5,000 for year one and \$5,000 for two years totaling  \$10,000 for project
Laboratory Technician Tom Mataeo	Run scientific analysis  Allow for a student shadow day and career discussion	\$5,000 for 2 years totaling \$10,000 for project
Total Salary		\$20,000 for 2 years
Expense--Equipment	Description	Amount
Gas Chromatograph analysis	To test soil and plant samples, plus water samples if requested	\$5,500
Total funds for primary project site:		\$25,500
Note: main budget narrative will provide details for majority of the award		

### Project/Performance Site Location(s)

**Project/Performance Site Primary Location**

I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name:

DUNS Number:

\* Street1:

Street2:

\* City:  County:

\* State:

Province:

\* Country:

\* ZIP / Postal Code:

\* Project/ Performance Site Congressional District:

**Project/Performance Site Location 1**

I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name:

DUNS Number:

\* Street1:

Street2:

\* City:  County:

\* State:

Province:

\* Country:

\* ZIP / Postal Code:

\* Project/ Performance Site Congressional District:

**Additional Location(s)**

## *The Effects of Mining on Agriculture on the Green Reservation*

*Partners: Green Giant Tribal College  
Oregon State University*

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The purpose of this cooperative agreement is to indicate the commitment of each partnering institution and to outline the role of each institution involved in the project. Green Giant Community College and Oregon State University are strongly committed to implementation and completion of this project.

Green Giant Tribal College (a 1994 Land-Grant Institution) will serve as the lead institution and Robert Karrot of the college's Science Department will serve as project director. Green Giant Tribal College will partner with Oregon State University for the duration of this 2-year project.

Below is an outline of the work distribution:

Green Giant Tribal College —

- Will design research project
- Will recruit participants
- Will explain research project
- Will conduct field research analysis
- Will work with Oregon State
- Will compile and write up report

Oregon State University

- Will use scientific instrumentation to do in-depth analysis and confirm results of field data
- Will assist with experiment protocols
- Will provide Green Giant students who conduct field research with a shadowing assignment and day with faculty
- Will work with Green Giant Tribal College to analyze data
- Will working with Green Giant to help release the report to the community in cooperation with Oregon Environmental Department

This being agreed to on the Second of August, 2011

*Robert Karrot*

Robert Karrot  
Project Director  
Science Faculty Green Giant Tribal College

*Sylvia Salat*

Sylvia Salat  
Research Faculty, Oregon State University

*Paul Letice, Ph.D.*

Paul Letice, Ph.D.  
Green Giant Tribal College

*Rocky Rhodes*

Rocky Rhodes, MD, Ph.D.  
Head of Chemistry and Toxicology  
Oregon State University

If you read the boxes about sub-awards, this cooperative agreement is the statement of work for the 1994 Land Grant and its 1890 or 1862 Land Grant Partner. Don't see this as a boring detail. This contract--signed by both project directors and their supervisors in this example--is protection. You need this. It outlines roles and solidifies them. Take your time with it. Make sure it is what you want. Make sure you cover everything you want the 1890 or 1862 Land Grant to do. If you are funded and the project starts, you don't want surprises later on that are, in reality, shocks. This document prevents them. As do the negotiations that this document reflects. Also, if you get funded they won't release your money until you have this document, signed.

If the capacity grants should focus on localized research with a focus on the Reservation community this should be a strong part of your application.

## Stakeholder Plan

Prior to this application the project directors held a town meeting in conjunction with Oregon's office of Environmental Policy which was attended by leadership from the gold mining community and farmers of the Green Reservation in Zigzag, Oregon. The farmers expressed concerns about the chemicals used for small-scale mining and their affects on soil fertility.

The result of that meeting was that both farmers and miners agreed that test should be done to find out whether mining was affecting farmland, and if so to what extent. Both groups have agreed to the concept of the research which was presented to them at a follow up meeting.

At that meeting, it was requested that the state Environmental Department also attempt to verify any results, so we included that as part of our proposal. The state environmental department has agreed to do this verification separately, outside of this project to avoid conflict of interest.

Throughout this project we will meet at least twice a year with the farmers and miners. Students will present their work and the project directors will answer the famers and miners questions. We will listen to concerns voiced by farmers and miners, and adapt the project if needed. If preliminary results suggest crop damage, project directors will work with communities and Oregon's department of environmental mediation for immediate resolution.

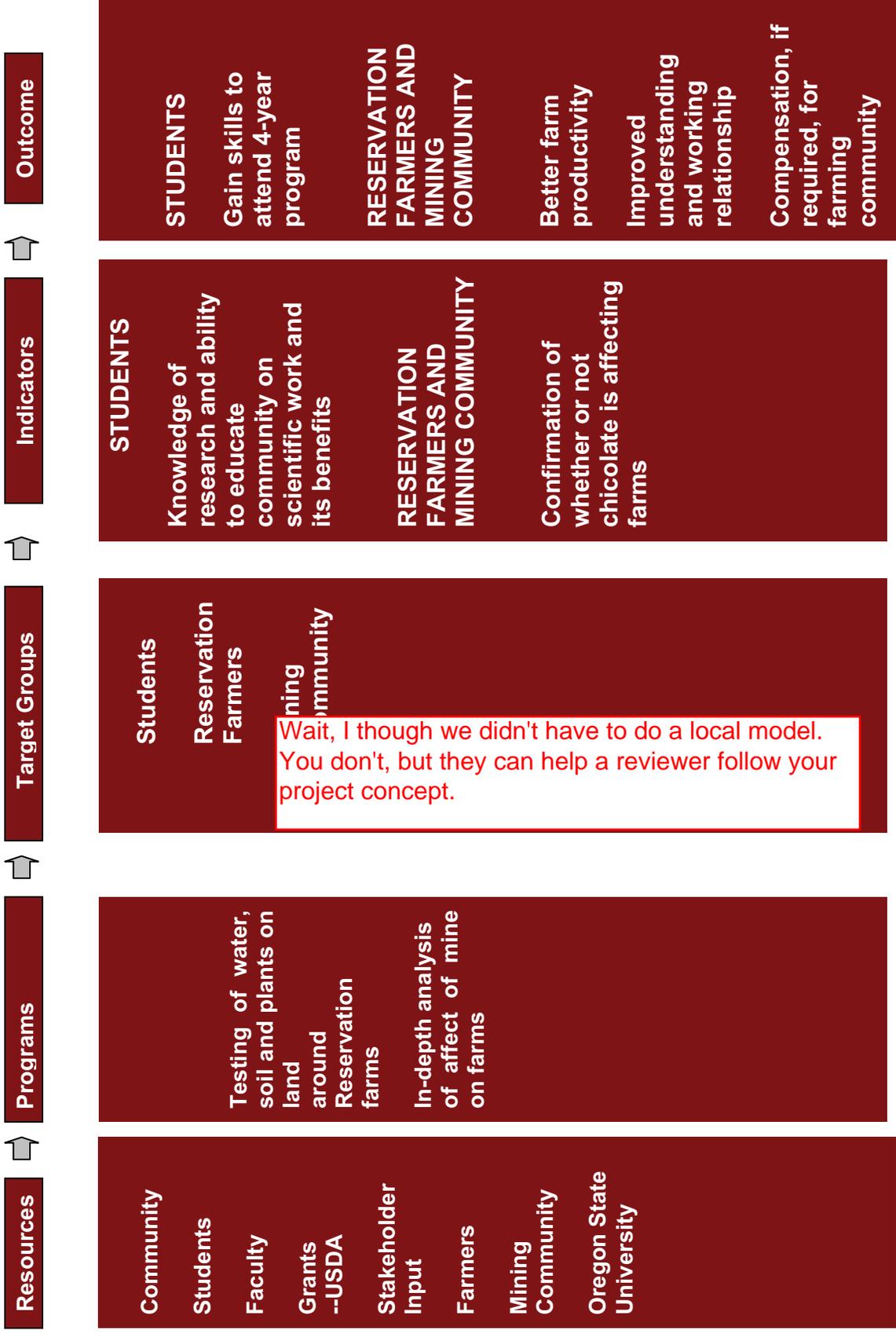
Farmers who are recruited to participate in this study through newspapers, radio and workshops from Green Giant Tribal College's extension program will get special reports relating to the health of their land, provided by students and both Land Grants. They will be kept appraised of progress, including preliminary results and ultimate findings. They will have opportunities to meet with their peers, discuss findings and give their suggestions for next steps.

Upon completion of this project, the project directors will write a report, to be presented to Oregon's Environmental Department. Based on the findings, the mining company may need to find new process options or compensate the growing community.

Students will also meet with the project directors weekly to discuss their challenges and suggestions for improving the project. The project directors will accompany them to reading sites to monitor their progress in using field equipment and help them with any difficulties they are having in completing any part of their research tasks.

The project directors will also have private meetings with each other to discuss the feedback received from the community and the students to see if the project needs to be adapted in any way. They will also use this time to assess their working relationship and ensure that they are both meeting their expectations for this project to themselves, the students and the community.

Green Giant Tribal College: 2012



Green Reservation  
1009 Shady Lane  
Zigzag, Oregon 97040  
grcouncil@yahoo.com  
503-111-0000

WWW.GreenReservation.COM

September 21, 2011

National Program Leader  
NIFA-Waterfront  
Washington, D.C. 20024

Dear NPL,

We are writing in wholehearted support of Robert Karrot's application to study the affect of mining on the soil fertility of farmland on the Green Reservation. We appreciate Mr. Karrot's efforts on our behalf and during a town hall meeting we decided, in agreement with the mining community, that this research may be the most effect means to resolving our concerns and setting everyone both on and off the community to finding workable solutions.

We also appreciate how this project will allow students at the Green Giant Tribal College to build their skills in science and work to serve the greater community.

We have every confidence in Mr. Karrot's ability to work with Dr. Sylvia Salat. We have met Dr. Salat and feel that she will be an asset to this project. We appreciate that both project directors will be meeting with us regularly to discuss the project and obtain feedback.

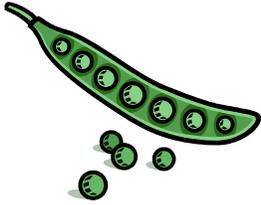
Again, we support this project without hesitation.

Sincerely as always,

*Howard Jones*

Howard Jones  
Tribal Chief

Your letter of support backs your stakeholder document. Remember, if your clients have trouble writing or expressing their thoughts you are allowed to help! That's not cheating. That's being smart.



## **Note of Endorsement – Green Reservation Farmers Cooperative**

The chemicals used for small-scale gold mining often rely on the toxic substance chicolate to release gold from the soil. Chicolate has been associated with soil damage and infertility in high enough concentrations. We believe that the chicolate is getting into groundwater and irrigation streams and damaging plants.

We fully endorse this project. Farmers intend to cooperative fully with Green Giant Tribal College's research. We also appreciate that youth will be involved in this process as they learn to conduct scientific investigations to the benefit of our community.

If the results are negative, that will be a great relief. If they are positive, and we can have redress for our losses, and that will be an important opportunity for us to have our voices heard by the community outside our Reservation's borders.

Sincerely,

*Joe Bean*

Joe Bean  
President  
Green Reservation Farmers Cooperative

An Example of a table you could use to answer questions in the RFA. Answering the questions is a must--the table is optional.

Complete this form, print as a PDF and submit with your application under field 12 – additional attachments. You may also use the PDF provided in your e-mail invitation to apply

<b>Research Capacity Status Report</b>			
Have you received a 1994 Research Grant before?		Yes	No X
Do you have other research funding?	If Yes, please provide description		X
Does your institution regularly conduct experimental research?	If Yes, please provide description		
Have you ever been a sub-award recipient on a research project?	If Yes, please provide description Oregon State University's NFS grant on water quality	X	
Do you have an existing 1890 or 1862 research partnership ?	If Yes, is it in your state ? Oregon State University	X	
Does your institution have an internal IRB or mechanism for Getting IRB approval ?	If Yes, what is the IRB mechanism ? __ 1994 __x__1862 __ Tribal		
Has your Institution published a research article in the past 3 years ?	Publication ? Journal of Science Education 2011		x
<b>Does your college have the following laboratory instruments?</b>			
	Yes	No	Provide description if applicable
Scales/microscope/glassware/chemical stockroom	x		Basic chemical stockroom and glassware. Microscope is used and out of date and unreliable
Other basic instruments ?		x	None
Broadband internet ?	x		Basic broadband through Teytell and support from Oregon State University
Greenhouse ?		x	
Active Test Plots ?	x		One
More Advanced Instrumentation:			
Incubator / Gas Chromatograph / Mass Spectrometer / other ?		x	