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## **ESRI 2015 User Conference Student Assistantship**

### WHAT YOU'LL BE DOING

One of the cool things about being an Esri UC student assistant is that you'll have the chance to see many different aspects of the event. Students help Esri staff with attendee registration, technical session monitoring, conference logistics, and the Esri Store. On your time off, you can attend sessions and social events, learn about the latest and greatest GIS technology in the Solutions Expo, and even explore beautiful San Diego.

### WHAT'S IN IT FOR YOU

Students selected receive full registration to the conference, hotel accommodations, and a per diem allowance for meals. You only pay for your travel and personal expenses. Even more important—you'll have the chance to see what's ahead in GIS technology and expand your professional network, invaluable in getting your career off the ground.

### ABOUT ESRI

Our passion for improving quality of life through geography is at the heart of everything we do. Esri's geographic information system (GIS) technology inspires and enables governments, universities, and businesses worldwide to save money, lives, and our environment through a deeper understanding of the changing world around them.

Carefully managed growth and zero debt give Esri stability that is uncommon in today's volatile business world. Privately held, we offer exceptional benefits, competitive salaries, 401(k) and profit-sharing programs, opportunities for personal and professional growth, and much more.

Learn more and apply online at [www.esri.com/careers](http://www.esri.com/careers).

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Esri is an equal opportunity employer (EOE) and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.

## NEEDED FOR THE JOB

Student assistantships are open to graduate students and fourth-year undergraduate students who are also

- Currently enrolled in an accredited college or university
- Familiar with GIS software and geospatial applications
- Available to arrive in San Diego Friday, July 17th and work through Friday, July 24th

To apply, submit your resumé and a cover letter that includes

- Your academic interest in GIS
- Your experience with Esri solutions
- What you hope to gain from this experience
- A phone number and e-mail address where you can be contacted through August 2015

We also require two letters of reference and prefer at least one be from a professor. You may submit them with your application, however we suggest having them e-mailed directly to [ucstudents@esri.com](mailto:ucstudents@esri.com).

Applications must be in by **April 15, 2015**.

Selected students will be notified by **May 1, 2015**.

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## **Internships at AAG**

The AAG seeks interns on a year-round basis for the spring, summer, and fall semesters.

Interns participate in most AAG programs and projects such as education, outreach, research, website, publications, or the Annual Meeting. The AAG also arranges for interns to accompany different AAG staff on visits to related organizations or events of interest during the course of their internship. A monthly stipend of **\$500** is provided and interns are expected to make their own housing and related logistical arrangements. Enrollment in a Geography or closely related program is preferred but not a prerequisite for these opportunities.

### **Applications**

Applicants should forward a resume, brief writing sample, and three references to Candida Mannozi, [cmannozi@aag.org](mailto:cmannozi@aag.org)

More information on internships at the AAG is also available on the Jobs & Careers section of the AAG website at: <http://www.aag.org/cs/employment>

## **ASPRS Student Assistantships**

ASPRS annually selects qualified students to attend ASPRS Conferences with financial support from the [ASPRS Foundation](#) which includes lodging for each recipient, plus a \$100 stipend. The grants also include complimentary registration to the conference where the recipients serve as Student Assistants, provided they volunteer a minimum of 15 hours, as assigned, during the conference.

The intent of this program is to increase student exposure to the profession, and to encourage continued student identification with and membership in ASPRS as their national professional organization.

### **Application**

In addition to a special application form available on the conference website, applicants must:

- Provide a written statement of no more than one page outlining the importance of attending this conference in relation to the applicant's course of study and career development plans
- Be a student at an accredited college or university
- Be an ASPRS Student Member: Attend the conference

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- Agree to serve a minimum of 15 hours as a Student Assistant at the conference  
References and transcripts are not required

For volunteer information, contact the Volunteer coordinator for the selected conference.

Selection of the finalists is at the sole discretion of ASPRS and, if no candidates are found eligible, the awards will not be made. **ALL APPLICATIONS MUST BE RECEIVED BY THE PUBLISHED DEADLINE.**

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## **Invasive Plants Intern**

### **Expected Dates**

May 25, 2015 to August 16, 2015

### **Site**

Baca National Wildlife Refuge

### **Position ID**

PO-00641333

### **Job Description:**

Six invasive plants interns are needed to assist the U.S. Fish & Wildlife Service with invasive plant treatment, monitoring, and mapping at the San Luis Valley National Wildlife Refuge (SLV NWR) complex. The complex is composed of three refuges: Baca, Alamosa, and Monte Vista NWRs. Two interns will be stationed at each refuge.

**Duties:** Primary duties include treatment of high priority weed-infested areas of the refuge by applying herbicide on target plant species. ATVs with boom sprayers and/or wands, and backpack sprayers will be the primary mode of herbicide application. In certain instances, hand-pulling or mowing may be required. Interns will keep detailed records of treatment efforts, including chemical used, target plants, amount applied, application period, acres treated, and efficacy percentage. Work will primarily be outside, with a minor amount of office-related duties (mostly focused on data entry). Interns will use GPS units to map treated areas and other target plant areas on the refuges, and work with the refuge biologist to organize the field data and enter into ArcGIS for analysis. Duties may also include light equipment maintenance, yard clean-up, and other tasks.

**Training provided:** Training will include: operation and maintenance of ATVs and a 4X4 truck, GPS navigation, ArcGIS basics, and proper herbicide handling, application, and equipment maintenance techniques. All personal protective equipment will be provided by the refuge.

### **Location description:**

All refuges are located in the San Luis Valley of southern Colorado, in an arid climate at elevations between 7,500 and 7,800 feet.

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Baca National Wildlife Refuge is located near Crestone, CO. Crestone has two small grocery stores and a few restaurants. Larger cities such as Salida and Alamosa are about a 1-hour drive from the refuge headquarters.

Alamosa National Wildlife Refuge is located just east of Alamosa, CO.

Monte Vista National Wildlife Refuge is located about seven miles south of Monte Vista, CO.

**Qualifications:** Applicants must be able to hike 5-7 miles a day, sometimes in inclement weather. Applicants should be capable of walking through shallow water (less than 10 inches) for several hours at a time. It is necessary that applicants have excellent observation skills, be detail-oriented, and show patience because weed treatment, monitoring, and mapping can get repetitive. After the initial job orientation, the interns will be expected to work independently with little to no supervision throughout most of the season. Applicants with knowledge or experience in western invasive plants are preferred.

**Educational/Recreational opportunities:** Located in the San Luis Valley of southern Colorado, the refuges are surrounded by many other public lands, including the Great Sand Dunes National Park, the Rio Grande National Forest, BLM lands, and state-owned properties. The Sangre de Cristo and San Juan mountains are near the refuges, and offer endless opportunities for hiking, camping, backpacking, climbing, and wildlife observation. The Rio Grande and Arkansas rivers are also nearby. World class fly-fishing, hunting, whitewater sports, mountain biking, hiking, backpacking, camping, and climbing opportunities are all located within a 1-2 hour drive of the refuges.

### **Main Area of Focus**

Natural Resources Mgmt

### **Education, Training & Skills Expected**

Biology: some coursework or experience

GIS: some experience

GPS: some experience

Plant Identification: competent with supervision

Orienteering compass skills some experience

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# **Great Smoky Mountains National Park 2015 Internship**

POSITION TITLE GIS/Data Management Intern  
5 Positions

LENGTH OF APPOINTMENT 12 weeks

STIPEND \$125 per week + dorm housing included

## **DESCRIPTION OF DUTIES:**

GIS and Data Management interns needed beginning June 2015 and lasting for 12 weeks for assistance with GIS data Creation, data management, and technology transfer. Duties will include using ArcGIS Desktop software and Trimble GPS Equipment to create and manage new GIS data layers; Coordinating with park staff to organize existing spatial and tabular data and create and document procedures for updating databases. Perform data mining and analysis of data in a variety of database systems.

Use of GIS to support GIS and database development in the following areas: Wildlife Management, Cultural Resources, Fisheries and Water Quality, Inventory and Monitoring, Climate, Remote Sensing; Developing base-mapping programs for the continued collection and analysis of monitoring data. Performing data mining, analysis, and entry. Participate in Search and Rescue Program. Must be able to hike in mountainous terrain in hot humid or inclement weather conditions carrying a daypack or backpack and other field equipment. Good fitting hiking boots and rainwear are important personal items to have prior to arrival. Stinging insects, poison ivy, slippery footing, and venomous snakes are known field hazards. Work schedule is 4/ten hour days 7:00 AM to 5:30 PM, M-T

## **SKILLS NEEDED:**

Some education or experience in geographic information systems (GIS), computer cartography a must, specifically experience using ArcGIS Desktop (ArcMap/ArcCatalog). Experience with geodatabase formats is a plus, as is understanding of geodatabase tables. Knowledge of Microsoft Access and Excel and ability to understand data patterns. Applicant should have the ability to write and follow detailed technical information documents and be self-motivated and flexible. Applicant should be highly organized and able to manage a large-scale project from inception to completion. Applicants will be selected based on demonstrated ability to work independently and with initiative with regard to organization, ability to understand data patterns, and assimilate new skills.

Valid state vehicle operator's license desired.

## **Documentation Required:**

Access to government computers requires the following: ability to pass Federal Computer Security Background Investigation; must be able and willing to complete background check application and return via registered mail; must provide own transportation and expense for purpose of obtaining a DOI Employee Identification Card. Employment is contingent upon

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ability to successfully complete and pass a Background Investigation.

#### HOW TO APPLY:

Application packages should be in “USA Jobs Format”, which is required for BG Check. Create a profile on USA Jobs and convert all USA Jobs application materials to PDF and send to [thomas\\_colson@nps.gov](mailto:thomas_colson@nps.gov) AND [kendra\\_straub@nps.gov](mailto:kendra_straub@nps.gov). Your USA Jobs Profile must include entire work history, current phone number and address of former supervisors, current phone number and address of references, education history including classes, courses, seminars, and external training related to GIS and Data Management. We are currently unable to access USA Jobs Profiles for this announcement. Application materials must be converted to PDF from within the USA Jobs Web Site and emailed to both email addresses. Hard-copy applications which are physically mailed to the park will not be accepted. Application materials sent to only one of the recruiter email addresses listed in this announcement won't be considered.

Unfortunately we are unable to provide assistance or guidance with the formatting of your application materials using the “USA Jobs Format”. Omission of verifiable contact information of current and former supervisors could render your application not considered. International applicants are encouraged to apply. Valid employment documents are required at the state of employment. We are unable to advise applicants regarding the validity of Student Work Visas and international applicants should consult appropriate legal sources for preparation of Visas and Work Permits. Only applicants selected for the position(s) will be asked to provide documentation substantiating a Federal Background Check. Submittal of Personally Identifiable Information required for a Background Check without being requested to do so will result in your application not being considered.

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## 2015 Summer of Maps Fellowship Program

Azavea's annual Summer of Maps fellowship program is about to open its submission process again. Summer of Maps is a program that provides \$5,000 stipends to GIS students to work as GIS analysts on pro bono geospatial projects for non-profits for a three month period over the summer of 2015.

The first submission period from January 5 to February 8 is open to submit organization submissions. Non-profits from around the United States are invited to submit an application. The second submission phase from February 27 – March is for current GIS students to submit an application to be considered for the summer opportunity. Selected fellows will be announced May 1st to begin working on select GIS projects at the Philadelphia, PA office on a GIS project for one of the selected non-profits (more details about eligibility requirements for both organizations and fellows are [here](#)).

Last year, three fellows were selected for the Summer of Maps GIS program. These students from students from Clark University, the University of Pennsylvania and Colgate University worked on GIS projects for DataHaven in New Haven, the Philadelphia Community Design Collaborative, GirlStart in Central Texas, New York City's City Harvest, TreePeople in Los Angeles, and The Consortium for Building Energy Innovation in Philadelphia. The work produced by the Summer of Maps fellows not only provides hands-on analytical and geospatial data management skills but also benefits the organizations participating in the program. From Azavea:

The results of these projects have enabled these organizations to make strong cases in favor of the causes for which they advocate or enabled them to make strategic decisions to service the communities they serve. In 2013, DVAEYC, one of the non-profit organizations we worked with, used maps produced by one of the fellows to win [\\$ 1 million in new funding](#) from the Philadelphia City Council and the William Penn Foundation.

To be more detail, <http://www.gislounge.com/summer-maps-fellowship-program/>

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<http://www.summerofmaps.com/>

## 2015 CAGIS Map Design Competition (Students)

The post-mark deadline for submissions is Sunday, February 1, 2015

### About the Competition

Student awards are sponsored by the National Geographic Society, Avenza, and ESRI. Each student award consists of a cash prize (\$500), a National Geographic atlas, a student license of Avenza MAPublisher, and a framed certificate of award. Runners-up will receive a National Geographic map or atlas. Student mapmakers in a certificate, diploma, or degree program (bachelor, masters, doctorate) must have produced their entries with student facilities as part of an accredited course. Student entries must be verified via the instructor. Winning entries will be displayed at a number of national and international professional functions and will then become part of the permanent collection of the U.S. Library of Congress. Digital images of winning entries will also be provided (with permission) to educators and teachers as examples of excellent map design for their students.

Student entries are strongly encouraged. Therefore, there is **no fee for student entries**. Professional entries are \$30 for each map submitted.

### Categories of Award

#### *Professional Categories*

**Reference:** A map whose objective is to show the location of a variety of different features. The focus of a reference map is on accurate depiction at a given scale of the location of individual environmental features.

**Thematic:** A map whose objective is to illustrate a theme or the relationship among several themes. The focus of a thematic map is on the structure of the distribution rather than on location.

**Book / Atlas:** Atlases and books use original maps as the primary (in the case of an atlas) or a significant (in the case of a book) communication device.

**Recreation / Travel:** A map designed to assist readers in pursuit of recreation or travel, such as road maps, trail maps, and maps of parks or natural areas.

**Interactive Digital:** A map designed for digital media (Internet, DVD, mobile app). Maps in this category include some level of interactivity, such as selection and transformation, or animation.

**Other:** This category is for submissions that do not fit into any other category. Judges reserve the right to assign entries to another category if they feel it is appropriate and will offer an award only for an exceptional map that does not correspond with the other categories.

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### *Student Categories*

**Arthur Robinson Award for Best Printed Map:** A map or map series designed specifically for print media.

**David Woodward Award for Best Electronic Map:** A map or series of related maps designed specifically for electronic media (i.e., DVD, the Web, or a mobile app).

### **How to Enter**

The 42nd CaGIS Annual Map Design Competition will be judged in February or March 2015. The post-mark deadline for submissions is Sunday, February 1, 2015. (**All maps must be received by this date!**) Maps must have been completed or published in 2014.

### **Submission Directions**

**Please note: the submission process has changed!**

- Complete the online submission form below or by clicking [here](#).
- Use PayPal to pay online (directions available [here](#)) or pay via check when you mail your print maps (see next step);
- Print and submit three (3) print copies of your print map (or three printed screen captures of a digital map submission);
- Email as an attachment and/or provide a permanent, online link to a complete PDF or JPEG version of your map submission. Send the digital copies or links to them [tocagis.competition@gmail.com](mailto:tocagis.competition@gmail.com). *Digital submissions are required!*

**Interactive and Digital Map Entrants must submit one of the following:**

- A CD/DVD/USB media disk containing a working copy of your map **or** a link to the functioning version of your map on the Web. Acceptable mobile map data formats include: iOS and Android apps that are free or viewable through the Adobe Content Viewer app (which is freely available on iTunes and Google Play); Web-based maps using Adobe Flash and Oracle Java plug-ins; or Web-based maps requiring a standard browser. Executable programs are also permissible but only when provided on USB or CD.

After November 1st, 2014, please mail your hard copies to Tanya Allison at Montgomery College.  
*Note: any submissions postmarked after February 1st, 2015, will not be accepted.*

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## 2015 National Geographic Award in Mapping

Undergraduate students and master's-degree candidates are invited to apply for the National Geographic Award in Mapping. This award recognizes student achievement in the art, science, and technology of mapping and seeks to encourage student research.

The first place award consists of a cash prize of \$900 (U.S.) and the second place award is \$300 (U.S.). Winners and honorable mentions also will receive National Geographic atlases or other map products.

This award is administered through the Association of American Geographers (AAG) Cartography Specialty Group (CSG). Submissions are judged by a panel of professional cartographers working at National Geographic. Applying students do not need to be members of the AAG.

### How to Apply

Following the strong tradition of print cartography produced by the National Geographic Society, submission must be in the form of a static map in a vector (e.g., pdf) or raster (e.g., jpg, tiff) format. While group work is eligible for submission, the maximum numbers of students working on a single team is three. Entries must be completed as part of the student's curriculum (i.e., not for a job, including freelance work); the student's cartography instructor must confirm that the work was completed for university credit by completing the form available below. In addition to your map, please include the following items with your submission:

- A cover page that includes your name, institutional affiliation, degree program (e.g., M.A.), address, phone number, email, and cartography/GIS instructor's name.
- A one-page statement that provides some context of the submission, i.e. its purpose, how it may be used, how it was created, its limitations, etc. Please also include a paragraph on how this award would help you with your educational plans.
- The completed form signed by your cartography instructor. [Download Form](#).

Submissions must be received by **March 1, 2015**. Please apply by sending all digital materials to Stephanie Deitrick ([stephanie.deitrick@asu.edu](mailto:stephanie.deitrick@asu.edu)) and Robert Roth ([reeroth@wisc.edu](mailto:reeroth@wisc.edu)). The award will be announced at the 2015 AAG meeting in Chicago. Further information and past winners are available at: [NatGeoEd.org/mapawards](http://NatGeoEd.org/mapawards)