



## **WRI Internship in Watershed Management Fact Sheet** ***A USDA HSI Education Grant Project***

- 1) A watershed is a region drained by a stream, lake, or other body of water. In other words, it is a bowl or basin-shaped area in which all water flows to the same outlet point or underground water basin. Watersheds are critical to the health and welfare of communities located with them because they are the source of local water supplies for homes, industry and natural environment.
- 2) The WRI Internship in Water Management program provides an opportunity for students to participate in real-world research or public policy problem-solving activities that address the impact to the Santa Ana watershed that have resulted from explosive growth, changing land use patterns and expanding urbanization into open spaces. The Santa Ana River watershed is one of the fastest growing regions of California and includes the developed portions of Orange County, much of the built-up portions of Riverside and San Bernardino Counties, and a small portion of Los Angeles County. The 2000 census indicated that the watershed is home to 4.8 million people and will grow to about 7 million by 2025 and almost 10 million by 2050. CSUSB is located in the Santa Ana watershed and most of the activities of the Water Resources Institute (WRI) are focused on this watershed because our students and the communities we serve are dependent on this watershed.
- 3) Any full-time CSUSB student (graduate or undergraduate) in the College of Natural Sciences or the College of Social and Behavioral Sciences is eligible to apply for a WRI Internship in Watershed Management. Students from other colleges may apply pending approval from the USDA.
- 4) The salary for a WRI Internship is approximately \$12.50 per hour for graduate students and \$11.00 per hour for undergraduates. Students must sign of Letter of Commitment agreeing to complete a 360 hour internship working 20 hours per week for a period of 18 weeks. Pending approval from the USDA, students or faculty may request a revised work schedule.
- 5) Students applying for an internship must identify a particular Watershed Management Project in the Santa Ana watershed in which they would gain valuable skills and experience related to their own field of study. Projects may be expanded beyond the watershed to include a large portion of Southern California or the State of California if there is adequate justification and pending approval by the USDA. Up to \$1,000 per Project is available for supplies including transportation. Supplies should be itemized with budget.
- 6) Internships must produce a final product (data, report or product) can be submitted in digital format to the WRI. Interns must reserve 20 hours for IT training at the WRI where they will gain competency with decision support system designed to share their final product with stakeholders in the Santa Ana watershed in a GIS format over the Internet. It is expected that in the final product, as well as in any future publications, the student intern will explicitly state their joint affiliation with the WRI and their home department.
- 7) Watershed Management Projects must be approved and signed by a CSUSB faculty member or the Director of the WRI who agrees to provide the supervision necessary for the student to complete for the Watershed Management Project.

- 8) Students must provide a 500 word personal bio-sketch that includes career goals and how this internship will help them complete their degree.

### **Co- Principal Investigators**

- 1) Dr. James Noblet (Associate Professor, Chemistry and Environmental Science), the Faculty Chair of the WRI
- 2) Susan Lien Longville, Director of the WRI

### **Faculty Research Team**

College of Natural Sciences

- 1) Dr. Joan Fryxell (Professor, Geological Sciences)
- 2) Dr. Sally McGill (Professor, Geological Sciences)
- 3) Dr. Eric Melchiorre (Associate Professor, Geological Sciences)
- 4) Dr. Tony Metcalf (Associate Professor, Conservation Biology)
- 5) Dr. Brett Stanley (Professor, Chemistry)
- 6) Dr. David Turner (Associate Professor, Computer Sciences)
- 7) Dr. Kim Williams (Associate Professor, Plant Biology)

College of Social and Behavioral Sciences

- 8) Dr. Norman Meek (Professor, Geography and Environmental Studies)
- 9) Dr. James Mulvihill ((Professor, Geography and Environmental Studies)



## WRI Internship in Watershed Management Program Application Form

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

Grade level: Sophomore  Junior  Senior  Graduate Student

Address, City, ZIP \_\_\_\_\_

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

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

*Please answer all questions below on an attached document in Word format. If you prefer, you may email your application to [slongvil@csusb.edu](mailto:slongvil@csusb.edu) listing "WRI Internship" in the Subject box. A copy signed by a faculty member or the WRI Director must be submitted to the WRI before the application will be considered.*

- 1) Project Description: (250 word maximum)
- 2) Describe the specific tasks the intern will perform: (maximum of ten tasks; no task should be longer than 50 words)
- 3) Describe the skills and experience the intern will gain: (100 word maximum)
- 4) Describe the benefit of the Project to the management of the Santa Ana watershed: (100 word maximum)
- 5) Identify stakeholders in the Santa Ana watershed that the intern will contact in the course of the project: (For example, the Natural Resource Conservation Service, Santa Ana Watershed Project Authority, Resource Conservation Districts, water supply agencies, environmental organizations or other)
- 6) Describe product the Project will deliver to the WRI that can be shared with stakeholders in the Santa Ana watershed
- 7) Identify the faculty member that has approved this project and don't forget to submit a copy signed before the application can be considered. You will be contacted for additional information and an interview.
- 8) List supplies including transportation necessary for the Project with budget.



## **WRI Internship in Watershed Management Program Guidelines for Selection and Approval of Projects**

1. Project Description
  - *Is this Project clearly defined? If not, what is missing?*
  - *What primary USDA Discipline (Water Science/Water Resources (Watershed Management), Conservation and Renewable Natural Resources, Plant Sciences, Related Biological Sciences, Environmental Sciences/Management) does the Project address?*
  - *Will the Project produce valuable information and for whom?*
  - *What is the merit of the Project on a scale from 1(low) to 5(high)?*
2. Describe the specific tasks the intern will perform: (maximum of ten tasks; each task should be no longer than 25 words)
  - *Will the tasks as written result in completion of the Project?*
  - *Are the tasks appropriate for 360 hours less 20 hours for IT requirement at WRI?*
  - *Are there missing, repetitive or redundant steps?*
3. Describe the skills and experience the intern will gain: (100 word maximum)
  - *Does it appear the intern will gain new skills and knowledge?*
  - *Will this Project be valuable experience for a graduate seeking a job? If so why?*
  - *Would this Project be valuable experience for a graduate seeking a career in the USDA's workforce that protect and enhance the natural resource base and environment?*
4. Describe the benefit of the Project to the management of the Santa Ana watershed: (100 word maximum)
  - *Is the benefit claimed legitimate?*
  - *Are there others?*
  - *Does the Project meet the Project Criteria on the Fact Sheet?*
5. Identify stakeholders in the Santa Ana watershed that the intern will contact in the course of the project:
  - *Are the appropriate stakeholders identified? Are others missing?*
6. Describe the product the Project will deliver to the WRI upon completion for inclusion in the WRI's information technology (IT) system that shares knowledge gained about the watershed in a GIS format over the Internet.

- *Is this product clearly defined?*
  - *If not, what is the product?*
7. List Faculty Sponsor that has approved this project you are a CSUSB student submitting a project.
- *What are the Sponsor's comments about the Project and the student?*
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- Yes, this Internship should be funded**
- **Priority Level: High (3) to Low (1)?**
  - **Comments**
- No, this internship should not be funded**
- **Reason for rejection**
  - **Comments**
  - **Any suggestions for revision?**

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James Noblet, P.I.

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Date