

San José State University
San José, California
ANNOUNCEMENT OF POSITION AVAILABILITY
Subject to Budgetary Approval
Graduate Assistant

SJSU is an Equal Opportunity/Affirmative Action Employer committed to nondiscrimination on the bases of race, color, religion, national origin, sex, sexual orientation, gender status, marital status, pregnancy, age, disability, or covered veteran status consistent with applicable federal and state laws. This policy applies to all SJSU students, faculty, and staff as well as University programs and activities. Reasonable accommodations are made for applicants with disabilities who self-disclose.

The latest San José State University Safety 101 Uniform Campus Crime and Security Report is available. You may request a copy of San José State University's annual safety report by contacting the University Police Department at (408) 924-2222 or by visiting the website at www.sjsu.edu/safetyreport.

Brief Description of Duties for Research Technician I:

The Project to Be Supported: A Textual Analysis of Student Self Placement Archive

Last summer 2900 students completed a self placement to choose their first college writing course. The MS Word/Canvas files they generated to explain their choice are being archived. As our first research project, we are analyzing these files to compare placement choices to traditional placement assignments (by exam scores). Our analysis will, further, generate a profile of student choice using text analysis software (Voyant and LIWC).

The project would offer the graduate assistant a hands-on experience using textual analysis software to describe a large corpus of student writing. The graduate student who accepts this position will also be positioned to learn other valuable lessons:

- The software that supports text analysis, data analytics and visualization.
- The processes, methods, and theories relevant to text analysis of a large corpus of writing.
- The processes and issues relevant to institutional research of human subjects (IRB).
- The processes for presenting research at a professional conference.

The scope of work for which the graduate student will be paid is as follows:

Researching solutions for textual analysis

- Explore and define efficient processes for gathering and reporting data using two different text analysis tools
- Research and implement integration of disparate data into one reporting form

Processing Text Files in Two Different Text Analysis Programs

- Prepare files for analysis
- Run the software to generate and gather data

Assist in gathering, compiling, and analyzing research data

- Use statistical techniques and operate mechanical devices common to research and statistical work
- Compile comparative tables to report results
- Work with campus analytics group to report data efficiently
- Track answers to specific follow up questions asked by Principle Investigators

Exceptions to the minimum qualifications may be granted at the sole discretion of the University.

All student positions are limited to a maximum of 20 hours/week.

Graduate Assistants as exempt employees will abide by workload requirements.

Syncing Textual Analysis Results with Other Success Data

- Learn/use Excel and Tableau
- Compile grade reports into one Excel file and upload to Tableau
- Compile survey data reports into one Excel file and upload to Tableau
- Create slides in Tableau to report on questions outlined by Principle Investigators

Minimum Qualifications:

Graduate student in good standing, in Computer Science, Computer Engineering, Software Engineering

Experience with and aptitude for Canvas and Excel

Excellent research and organizational skills

Excellent communication skills

Knowledge of computer software engineering and/or applications of computer software

Ability to relate well to others within the academic environment

Ability to assist faculty in the conduct of research outside the discipline of computer science and engineering

For the initial appointment, evidence of satisfactory achievement in previous academic work. At least one year of experience

For subsequent appointment, evidence of satisfactory contribution to project goals and progress toward completion of the degree.

Students enrolled in credential programs are not eligible for this position.

Application Procedures:

Required application materials include:

A statement of interest in and qualification for the project

A list of 3 references with contact information

A resume of relevant course work and work experience

A list of computer programs and skills

Email application materials to:

Dr. Cynthia Baer

cindy.baer@sjsu.edu

Hiring Criteria:

Applications will be screened for the minimum qualifications. Applicants who meet the qualifications will be interviewed, and asked to speak to their qualifications and suitability for the duties described above.

We are looking for a student who can support ongoing research and bring to our interdisciplinary team the knowledge of computation and analytics that our project requires.

Salary Range: The stipend for this assistantship is \$2500.

Deadline and procedures for notification:

Applications should be submitted by ASAP and by February 20 at the latest. Consideration will begin as soon as application is received. Interviews will begin February 13.

Exceptions to the minimum qualifications may be granted at the sole discretion of the University.

All student positions are limited to a maximum of 20 hours/week.

Graduate Assistants as exempt employees will abide by workload requirements.