# Graduate Research Assistant (Social Science Research Center) Position Function:

The **G**raduate **R**esearch **A**ssistant (GRA) position will provide programming and research support to the NSF grant entitled, “HNDS-I: A Data Visualization Tool for the COVID-19 Online Prevalence of Emotions in Institutions Database.” The project dates include: 08/01/23 - 08/31/2025 where the position described below will be available.

# Essential Duties and Responsibilities:

* His/her duties include designing and developing software efficiently and adhering to established programming standards.
* Be able to work in a collaborative environment, and complete assigned tasks by meeting deadlines.
* Based on tentative research needs his/her responsibilities can include applying and evaluating text-based data mining techniques to identify topics in social media data.
* S/he will also assist with research dissemination such as publication of scholarly articles and reports.
* S/he will be required to coordinate with the supervisor on scheduling working hours, but work schedules can be flexible to accommodate class and other responsibilities.

# Knowledge, Skills, and Abilities:

* Proficient in developing front and backend code using JavaScript libraries such as AngularjS.
* Proficient in any one of the Node.js frameworks (Express.js, Meteor.js, Sails.js), or Python-based web frameworks such as Django and Flask.
* Have a working knowledge of using topic modeling techniques, and building machine learning pipelines for prediction, and classification related tasks based on text-based social media data.
* Have a working knowledge of writing code using either R or Python libraries, such as Pandas, Numpy, matplotlib, scikit.
* Have a working knowledge of programming with relational and non-relational databases.
* Have a working knowledge of using software project management tools such as Github.
* Prefer candidates with experience developing apps using reactive frameworks like Meteor js.
* Prefer candidates with experience using visualization packages such as Highcharts, Chart.js and spatial mapping libraries such as leaflet, Google maps.
* Prefer candidates interested in Visual Analytics applied to social media related work.

# Benefits

The position will pay for your tuition fees (~$1,133 monthly or up to $13,596 annually on average) and a yearly stipend of **$23,500** (or ~$1,958.33 monthly).This position also includes GRA insurance at $148 per month or $1,776 annually. The student is expected to work 20 hours per week. Hired personnel will have the opportunity to work in an interdisciplinary team with collaborators from Sociology, Communication, and Computer science majors. Additionally, opportunities for presenting results and findings at local/national scientific conferences are expected. For highly motivated and productive personnel, opportunities for co-authoring scientific manuscripts are possible. If interested in this position, share your resume, and link to your GitHub repository.

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