0.25 FTE Graduate Research Assistantship for ESTRELLA Project

Project Description:
The Enabling Mathematics Teachers’ Research to Expand Latinx Learners’ Authentic Experiences in Computer Programming (ESTRELLA) project is an interdisciplinary effort—from faculty with areas of expertise in bilingual education, mathematics education (Drs. Sylvia Celedón-Pattichis and Carlos A. LópezLeiva), and electrical and computer engineering (Dr. Marios Pattichis)—designed to support and study interactive learning in computer programming and mathematics of middle school students, especially from underrepresented groups, through an integrated curriculum. The ESTRELLA project will provide engaging experiences through the development of teacher/student developed computer programs in their bilingual middle school mathematics classrooms. To learn more about this project, please visit http://aolme.unm.edu.

GRA Position Description
The GRAs are doctoral students interested in bilingual mathematics teaching and learning who will be appointed for a year with possible extension up to 4 years. The GRA position will support the implementation and research designed to study interactive learning in computer programming and mathematics of middle school students, through an integrated bilingual (Spanish and English) curriculum working with teachers at a public-school site. The GRAs are expected to take up leadership roles with the teachers, undergraduate facilitators, and research team members and will work 10 hours weekly.

Minimum Qualifications:
1) Graduate student in education or related field with interest in bilingual/mathematics education or bilingual/computer programming.
2) Ability to complete the human subjects training during the first week of employment;
3) Demonstrated ability to work in an interdisciplinary and collaborative environment;
4) High interest in teaching middle school students from culturally and linguistically diverse backgrounds.
5) Experience organizing and conducting professional development for mathematics and/or computer programming middle school teachers.

Preferred Qualifications:
1) Demonstrated ability to speak and write both English and Spanish;
2) Experience in educational research related to mathematics education and/or computer programming;
3) Familiarity with Google Workspace (e.g., Google Classroom).
4) Experience in programming (Linux and Python) digital audio, images, and videos;
5) Experience in conducting professional development with undergraduate students and/or teachers focused on action research;
6) Experience implementing qualitative research, especially knowledge of action research.
**Specific Research Activities:**
As a member of the ESTRELLA research team, the graduate student will participate in the following activities:

a) Attend the ESTRELLA weekly research seminars and other meetings;
b) Conduct relevant literature reviews;
c) Transcribe and translate (Spanish and/or English) audio and video data;
d) Organize, keep research logs, and code video data;
e) Actively support the research and implementation of professional development of ESTRELLA project in middle schools; and
f) Develop collaboratively a personally-led study related to the ESTRELLA context and present it at conferences.

**Interested?**
GRAs will be eligible for a tuition waiver of up to 6 hours per regular semester. Salary is determined based upon GRAs salary guidelines. Health insurance will be covered. Stipends are paid on a monthly basis.

Interested candidates, please contact Verónica Apodaca at vapodaca24@unm.edu, send a letter of interest and a resume. Applications will be reviewed by Feb 27, 2022.