

**UNIVERSITY OF MISSOURI
COLLEGE OF EDUCATION**

**Postdoctoral Fellow Position
Department of Learning, Teaching, and Curriculum**

The Department of Learning, Teaching, and Curriculum in the College of Education at the University of Missouri invites applications for a Postdoctoral Fellowship position. This Postdoctoral Fellow will work with Drs. Zandra de Araujo and Samuel Otten on the *Examining Relationships Between Flipped Instruction and Students' Learning of Mathematics* (Flipped Math Study), funded by the National Science Foundation. The Flipped Math Study is a research project led by Dr. Zandra de Araujo (PI), Dr. Samuel Otten (Co-PI), Dr. Ze Wang (Co-PI), and Dr. James Tarr (Co-PI).

The purpose of the Flipped Math Study (www.flippedmathstudy.net) is to provide a basis for design research focused on developing effective materials and programs for flipped instruction in secondary mathematics. This design and development of flipped instruction is already occurring at an increasing rate, but it is not yet informed by empirical evidence. This project will result in a framework for flipped instruction robust enough to be useful at a variety of grade levels and contexts. The framework will provide a better understanding of the relationships among various implementations of flipped instruction and student learning. These findings can inform teacher educators in better aligning their instruction to instructional formats that correlate with increased student learning outcomes. We are looking for a qualified Postdoctoral Fellow with experience in the areas of secondary mathematics education and qualitative research methodologies.

The Postdoctoral Fellow will collaborate with the Flipped Math Study team in quantitative and qualitative data collection, data analysis, and presentation and publication of results. Travel to study sites is required.

The Postdoctoral Fellow will gain experience working on a federally-funded, state-wide research project with a group of scholars focused on understanding teacher-led instructional practices. The post-doc will also have the opportunity to develop an independent line of research related to the study's activities.

This position will start in August 1, 2019. This is a twelve-month position.

Minimum Qualifications:

- An earned doctorate in Mathematics Education or related field at the time of appointment
- Experience with qualitative research methodologies

Preferred Qualifications:

- Experience conducting classroom observations
- Experience writing for publication
- Proficiency in English
- Valid U.S. driver's license

Responsibilities:

- Attend weekly team meetings
- Collect, organize, and analyze qualitative and quantitative research data

- Mentor graduate research assistants
- Co-author research publications and annual reports
- Develop future grant proposals

Candidates will be evaluated on the following factors:

- Ability to develop and sustain an independent program of scholarly research
- Openness to learning
- Skills in participating in research projects and generating research ideas
- Ability to co-author publications and grant proposals
- Experience with qualitative research methods in education
- Strong organizational and communication skills
- Research interests that align well with faculty mentors
- Commitment to equity and social justice

About Learning, Teaching, & Curriculum: LTC houses a suite of bachelor's degree programs leading to teacher certification, and offers a doctoral program with emphases in Art Education, Early Childhood Education, English Education, Mathematics Education, Reading Education, Science Education, and Social Studies Education. Educational Specialist degrees are offered in Literacy Education, Mathematics Education, and Science Education. LTC offers master's degrees in Art Education, Early Childhood Education, Elementary Education, English Education, Mathematics Education, Science Education, Social Studies Education, and Teaching English to Speakers of Other Languages. Graduate Certificate programs are offered in Qualitative Research, Reading Education, Elementary Mathematics Specialist, and Teaching English to Speakers of Other Languages. More information on the department can be found at:

<https://education.missouri.edu/learning-teaching-curriculum/>. More information about the Flipped Math Study can be found at www.flippedmathstudy.net.

About the College: The College of Education is ranked among the top doctoral granting colleges of education in the country. Today, the College has a student population of approximately 1000 undergraduates and 1,600 graduate students, and over 100 faculty. The College is financially well positioned to invest in innovation. Annual expenditures for externally funded projects are approximately \$20 million with funded projects in research, instruction and public service. Our research portfolio has increased significantly in recent years, and is poised for continued significant strategic growth. The College is a leader on the campus and is nationally recognized for its distance and online education programs.

About MU and the Surrounding Community: MU is the oldest state university west of the Mississippi River and the largest of the four institutions in the University of Missouri System. In 1867, MU became one of the first public universities in the nation to establish an academic program specific to teacher preparation. Cultural diversity is an important goal supported by the Department, College, and MU. More information is available on the web at: education.missouri.edu

MU is located in Columbia, a metropolitan community of approximately 120,000 that has been rated by *Money Magazine*, *Men's Journal* and *MSN.COM* as one of the best places to live in the U.S. MU has a student body of over 34,000, and is designated as a Carnegie Research University with very high research activity. MU is one of only six universities in the U.S. that is both the flagship and land grant institution housing medicine, veterinary medicine, and law on the same

campus. As an AAU member institution since 1908, MU is recognized as one of the top research and educational institutions in the nation.

This position provides an opportunity to work at a world-class research university in a beautiful and diverse setting that offers a high quality of life. There are numerous opportunities for outdoor enthusiasts, and Columbia has been recognized as a bike-friendly community. Both Kansas City and St. Louis are within a 90-minute drive offering the shopping and cultural opportunities of major metropolitan areas. Columbia has a very high quality public school system and provides many opportunities for art, culture and music enthusiasts.

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Salary: Competitive and commensurate with experience and qualifications

Appointment: Non-tenure track postdoctoral fellow, 12-month appointment, with possibility of renewing.

To Apply: (<https://hrs.missouri.edu/find-a-job>)

- A letter of application that addresses the candidate's interest, overall qualifications for the fellowship, and an explanation of how this fellowship will help prepare the candidate future career interests and professional goals.
- A CV
- A writing sample
- List of three references

The CV must be uploaded in the Resume/CV and Cover Letter section.

Beginning Review Date: Formal review of applications will begin **March 8, 2019** and continue until the position is filled.

Questions should be directed to:
Dr. Zandra de Araujo, Search Committee Chair
Learning Teaching, and Curriculum
University of Missouri
121 Townsend Hall
Columbia, MO 65211-2400
Phone: 573-882-7938
Email: dearaujoz@missouri.edu

The University of Missouri is an Equal Opportunity/Access/Affirmative Action/Pro Disabled & Veteran Employer: Women, minorities and disabled individuals are strongly encouraged to apply. To request ADA accommodations, please contact the Dean's Office at 573-882-8524. The University of Missouri is fully committed to achieving the goal of a diverse and inclusive academic community of faculty, staff and students. We seek individuals who are committed to this goal and our core campus values of respect, responsibility, discovery and excellence