Southern Methodist University: Ph.D. Fellowship Opportunities in STEM

**Three fully funded PhD fellowships** within the Research in Mathematics Education (RME) unit at Southern Methodist University are available **beginning Fall 2018.**

The fellowships are available for up to 3 years, contingent upon adequate progress in the PhD program. Fellowships include a monthly stipend and waived tuition that is contingent upon adequate progress in the program. Funds for travel to present at national conferences may be available. The Research in Mathematics Education unit is part of the Annette Caldwell Simmons School of Education and Human Development.

STEM Professional Development Ph.D. Fellowship

Interested in supporting and studying middle-school science teachers’ development of integrated STEM instructional practices? In this fellowship, you will work with a dynamic group of researchers and master practitioners to design and conduct professional development experiences for middle school science teachers and instructional leaders, provide coaching support to teachers in their classrooms, and research the impact of the initiative on teachers’ and leaders’ knowledge and practices.

While pursuing his/her Ph.D. at SMU, the selected doctoral student will work 20 hours a week on the STEM Academy for Science Teachers & Leaders Project. Through the generosity of the Texas Instruments Foundation, the O’Donnell Foundation and a partnership between Dallas ISD and SMU, the project is designed for the needs of Dallas ISD middle school science teachers and administrators to improve student achievement, engagement in science, and interest in STEM. The fellowship has a duration of 2years, contingent upon adequate progress in the Ph.D. program.

Early Mathematics Assessment Ph.D. Fellowship (NSF-Funded)

Are you interested in understanding how students develop early mathematics skills? Do you want to learn how to develop formative assessments to help teachers guide their instruction? This team of dedicated of researchers is developing and validating formative assessments to measure young children’s numeric relational reasoning and spatial reasoning.

While pursuing his/her PhD at SMU, the selected doctoral student will work 20 hours a week on a $2.5 million research grant from the National Science Foundation’s Discovery Research Pre-K-12 Program, which funds research and development of STEM innovations and approaches in assessment, teaching, and learning. The project, Measuring Early Mathematical Reasoning Skills: Developing Tests of Numerical Relational Reasoning and Spatial Reasoning, will develop and collect validity evidence for universal screening assessment tools for Grades K-2. Additional information about the project can be found here: https://www.nsf.gov/awardsearch/showAward?AWD\_ID=1721100&HistoricalAwards=false The fellowship is available for up to 3 years, contingent upon adequate progress in the PhD program.

Data-based Individualization to Support Middle-School Students’ Success in Mathematics Ph.D. Fellowship (U.S. Department of Education-Funded)

Do you want to learn more about helping teachers use data to make informed decisions about middle-school students’ mathematics proficiency? Do you want to work with a multi-state/university collaborative project to support and study teachers’ intervention practices? The successful Ph.D. student selected for this fellowship will work with researchers at SMU, University of Texas, Austin, and University of Missouri to design and implement technology enhanced professional development for middle school mathematics teachers, and study the outcome of this professional development on students and teachers.

While pursuing his/her Ph.D. at SMU, the selected doctoral student will work 20 hours a week on Project STAIR: Supporting Teaching of Algebra: Individualization and Reasoning/Readiness. This is a model demonstration project funded by the Office of Special Education Programs of the U.S. Department of Education. The fellowship is available for up to 3 years, contingent upon adequate progress in the PhD program.

Who are we looking for?

Strong candidates will have research interests in STEM-related disciplines, leadership experience, and past teaching experience or equivalent.

Are you interested?

If any of these fellowships seem like the right fit, begin your Ph.D. application today! Applications will be accepted until February 16, 2018 or until the positions are filled.

Got questions? Contact us!

For more information about this fellowship, please contact Dr. Leanne Ketterlin Geller (lkgeller@smu.edu)