

Postdoctoral Research Scholar

The All Included in Mathematics New Extensions (AIM-NEXT) professional learning program seeks a postdoctoral research scholar who will be responsible for the overall organization of the project's research, including methods, data analysis, and dissemination of research findings and results. They make sure all research-related activities, particularly the design of the studies, analysis of data, and organization of findings are implemented appropriately and within the project timeline. The post-doctoral scholars lead the project in the publication of project results, organizing the work to maximize publications in highly-regarded research and practitioner journals.

About the Project

Building on two (2) prior National Science Foundation-funded projects, the All Included in Mathematics New Extensions (AIM-NEXT) professional learning program will develop and research the impact of an augmented model for mathematics professional development (PD) on K-2 student learning through the addition of supports for coaches and leaders to the existing PD model. The overarching purpose of the project is to strengthen and examine the connections between PD and student learning in the context of supporting K-2 teachers. The research questions ask about the mathematical knowledge and key efficacious, equity-focused practices coaches use in their work with teachers, the extent to which they are used with integrity, and the extent to which they improve over time. The research will also look at what school administrators need to know and do to support high-quality mathematics instruction and bring the ideas of the project into practice. In addition, the study is examining the impact of teachers' knowledge, beliefs, and mathematics discourse practices, on students' mathematics learning, with attention to emergent multilingual learners. The final products of the project will include a set of empirically-tested and evidence-based hybrid programs with professional learning materials for use with different audiences and tools to support their work: (1) Professional Development for teachers, (2) Facilitator Preparation for PD leaders, (3) Coach Preparation for instructional coaches, and (4) AIM-Leadership Preparation for school administrators. All these materials will be designed for scale and available for use in any district across the nation and beyond to transform teachers' instruction and the mathematical understanding of each and every K-2 student.

Essential Job Duties

- Lead research activities for the project.
- Lead data analysis for both qualitative and quantitative data.
- Organize and clean large data sets.
- Write research papers, create project reports, and lead dissemination efforts.
- Publish research results related to Project AIM current and prior efforts.
- Lead presentations of project work and results.
- Other duties as assigned.

Required Qualifications

- Experience with elementary mathematics education
- Excellent communication and writing skills
- Demonstrated success in publishing research findings.
- Excellent organizational skills
- Experience with quantitative and qualitative data analysis tools
- Demonstrated success working in collaborative teams

Application Process

To view all qualifications and to apply, visit jobs.ncsu.edu/postings/172241.

About the NC State College of Education

As one of the nation's top-ranked public colleges of education, NC State's College of Education leads the way in North Carolina in preparing extraordinary educators, conducting transformational research, and engaging communities where they are to improve the educational outcomes of all learners and advance the greater good.

The college's faculty are widely-recognized thought-leaders who use their research to transform the practice of teaching, learning, and leading. About two-thirds of the faculty are grant active. They are engaged in over 100 active projects totalling more than \$85 million with a three-year average of \$26 million in grants awarded, making them the most productive in terms of research activity compared with other colleges of education in North Carolina and among the Top 5% in the nation. In FY22, the college's research expenditures exceeded \$15.9 million.

The college has over 1,900 students studying across five graduate certificates, seven undergraduate majors, two undergraduate minors, 13 master's degrees, three Ph.D., and two Ed.D. programs housed in three academic departments: Educational Leadership, Policy, and Human Development; Science, Technology, Engineering, and Mathematics Education; and Teacher Education and Learning Sciences, with approximately 130 tenure-track and professional-track faculty, 110 support and professional staff, and about 160 graduate and teaching assistants. The College of Education is also home to the Belk Center for Community College Leadership and Research and the Friday Institute for Educational Innovation.

The college has over 17,000 living alumni, with over 5,000 working in public schools in North Carolina. Those who are teachers rate the highest in effectiveness on surveys of school employers in North Carolina.

About Our Commitment to DEI

NC State University and the College of Education are especially interested in qualified candidates who can contribute, through their experience, research, teaching and/or service, to the diversity and excellence of the academic community. Our community values diversity, equity, inclusion and justice. As a public university — a university of the people — it's essential to welcome and support everyone in our community. That's why a commitment to a stronger and more inclusive institutional culture is enshrined in the NC State' strategic plan (<https://strategicplan.ncsu.edu/current-plan>) and we expect everyone in the Wolfpack community to champion this work and to give of their time, effort and talent to support it.

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran. If you have general questions about the application process, you may contact Human Resources at (919) 515-2135 or workatncstate@ncsu.edu. Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148. Final candidates are subject to criminal & sex offender background checks. Some vacancies also require credit or motor vehicle checks. If highest degree is from an institution outside of the U.S., final candidates are required to have their degree equivalency verified at www.wes.org or equivalent service. Degree(s) must be obtained prior to start date in order to meet qualifications and receive credit. NC State University participates in E-Verify. Federal law requires all employers to verify the identity and employment eligibility of all persons hired to work in the United States.



As a research powerhouse grounded in its land-grant mission,
the NC State College of Education is a state, national and global leader in education.



Top 5%

in research productivity among
colleges of education in the U.S.



#28

ranked college of education
in the U.S.



Most effective

educators in N.C.
as rated by employers

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