



MATHEMATICS EDUCATION TRUST &
ASSOCIATION OF MATHEMATICS TEACHER EDUCATORS



Early Career Research Grant

PURPOSE

Support of research in mathematics education conducted by early career mathematics educators and doctoral candidates in mathematics education

SUPPORTED BY: Eugene P. & Clara M. Smith Mathematics Education Research Fund, AMTE, & NCTM.

LEVELS: Early career mathematics educators and doctoral candidates in mathematics education

GRANT AMOUNT: Maximum of \$10,000

DEADLINE: November 1

ELIGIBLE APPLICANTS

- The primary applicant may be either:
 - An early career mathematics educator (e.g., College or University Faculty; K-12 School System Mathematics Educators). For this grant 'early career' means a mathematics educator who has completed a PhD or EdD in mathematics education or related educational area within the past 5 years.

or

- A doctoral student in mathematics education who has been advanced to candidacy with committee approval.
- Past recipients of this grant are not eligible to reapply.
- A person may receive no more than one award administered by the Mathematics Education Trust in the same academic year.

AWARD TYPE: Organizational

For MET grants, an organization is defined as a school, school district, university, or non-profit mathematics education organization. The primary applicant will indicate an organization to administer the finances of the grant when applying for the grant. The primary applicant MAY choose to administer the finances of the grant themselves; if so, they are responsible for reporting this award to the IRS on their personal tax return as income.

MEMBERSHIP REQUIREMENT

The applicant must be a current (on the day of the application) Essential or Premium member of NCTM and a member of AMTE, or have CO-PI's that include members of both organizations.

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AWARD APPLICATION INFORMATION

GENERAL PROPOSAL INFORMATION

- This research grant is intended to provide support for early career mathematics educators or doctoral candidates who need support to launch a new research project or fund their doctoral research project.
- Preference will be given to proposals that aim to make connections between research and practice in mathematics education.
- The proposal may include research on any issue or topic in mathematics education, such as:
 - The teaching or learning of mathematics students at any level
 - Preservice teacher education
 - Focused learning and teaching of mathematics with embedded use of technology (any acquisition of equipment must support the proposed plan but not be the primary focus of the grant)
 - Innovative assessment or evaluation strategies
- Involvement of preservice teachers is encouraged but not required.
- This research should lead to a draft article suitable for submission to the Mathematics Teacher Educator (MTE), Mathematics Teacher: Learning and Teaching PK-12 (MTLT), Journal for Research in Mathematics Education (JRME), Contemporary Issues in Technology and Teacher Education (CITE Journal) or a comparable journal.
- Proposals must address the following: research design, the plan for collecting and analyzing data, and the anticipated impact of the research on the teaching and learning of mathematics.
- If Human Subjects are part of the research proposal, funding will not be released until the applicant provides evidence to MET of IRB approval from their institution.
- For graduate student applicants who are awarded the grant, funding will not be released until the applicant provides evidence to MET that their dissertation research proposal has been approved.
- The grant is for one academic year, though awardees could submit an interim report on the grant progress that includes a request for an extension for up to one additional year to submit their final report. For example, recipients may have residual funds to spend, need more time to present on their research at a mathematics education conference, or need more time to submit a manuscript that connects their research to practice.

PROPOSAL COMPONENTS

Use the components below to outline your proposal. Use the rubric to check that you have met the criteria for the grant before submitting your proposal.

I. Proposal (Five pages maximum; single-space, 12 font, 1 inch margin)

A. Plan

- Describe the project's objectives and include attention to NCTM/AMTE policy documents, priorities, or initiatives.
- Clearly state the research question(s) to be investigated.
- Summarize the related research literature on the key factors under investigation.
- Describe the design of the research methodology including data collection and analysis methods to be used. (Include any notes on instrumentation in a one-page max appendix). Speak to your experience with this research methodology and/or data analysis methods.
- Include a clear and achievable plan for carrying out the research with a projected timeline for completion.

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- Describe the involvement of any pre-service teachers and/or professional development of in-service teachers that will be a part of the project.
 - Include any of the following in an appendix which may be part of your proposal
 - Examples of mathematical tasks that will be used
 - Details of mathematical content
 - Examples of Instructional moves and/or mathematical practices to be addressed
 - Details of any PD that will be part of the project
 - Sample items and names of any instruments that will be used in the project
- B. Outcomes
- Include your process evaluation criteria to measure inputs and preliminary outcomes of the project.
 - Describe the anticipated impact of the project and describe how the results of the research will be used and shared with the math and teacher ed communities.

II. Budget (Two pages maximum; table format)

- **No indirect costs** are permitted.
- Provide an itemized budget, presented in line-item table format with item descriptions, details of cost breakdown, and justification for each item (including any salary justifications)
- If the total budget for a proposed project is greater than the grant maximum, indicate clearly what the grant funds will cover and what additional funding sources might be available to complete the total budget.
- Funds may be used for any reasonable project expenses, including stipends for participating researchers and collaborating teachers, which are well justified.
- Acquisition of equipment and conference attendance must support the proposed plan but not be the primary focus of the grant.

III. Background and Experience

- Provide a one-page maximum vita, outline format preferred, for the primary research applicant and any co-researchers on the project.
- Include formal education including the institution, type and date of degree, major, and minor..
- State teaching experience related to this grant proposal, the school(s) where you teach and have taught, teaching assignments, and other pertinent information, such as continuing education and professional activities.

IV. Letters of Support

Two letters of support (one-page maximum) will be required from applicants, at least one from a supervisor (dean, department chair, principal, major professor). The second letter could be from another administrator/supervisor or a colleague. The letters must

- Be on official school letterhead and signed by the author,
- Confirm the teaching/research status of the applicant,
- Indicate strong support for the proposal and the applicant's ability to accomplish it.

FINAL REPORT REQUIREMENTS

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- Awardees will be required to submit a brief report (two single-spaced pages) and an itemized report of expenses with receipts at the end of the grant year. A final report detailing the results of the research and any anticipated follow-up activities must be filed within three months of the completion of the project.
- During the school year after completion of the project, awardees will be required to send a draft of an article to MET and AMTE about the research findings that they intend to submit for publication and the name of the journal(s) submitted, such as Mathematics Teacher Educator (MTE), Mathematics Teacher: Learning and Teaching PK-12 (MTLT), Journal for Research in Mathematics Education (JRME), Contemporary Issues in Technology and Teacher Education (CITE Journal) or any comparable journal.

AWARD AND PAYMENT SCHEDULE

- Award notification will be made by early February.
- The full annual amount of \$10,000 will be paid at the beginning of the grant.