

# Using STEM-Focused Teacher Preparation Programs to Reimagine Elementary Education

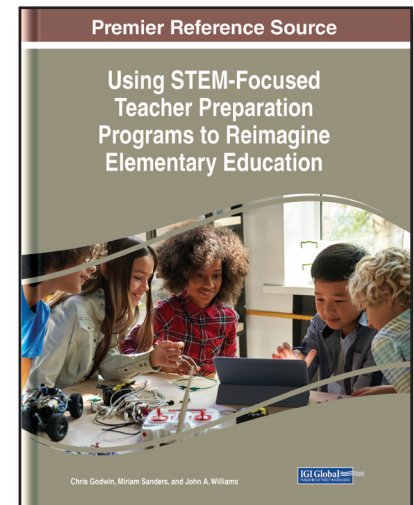
Part of the Advances in Early Childhood and K-12 Education Book Series

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## Description:

There has been an increasing issue in STEM education as many students lack interest and knowledge in STEM disciplines and fields. Given the high demand for STEM workers, and the projected growth of STEM fields, it is important to expose students to STEM education beginning as early as elementary school. Some K-6 programs are not preparing teacher candidates adequately for STEM content or skills, especially in engineering. Integrating these disciplines and practices throughout elementary education programs could result in more exposure for K-6 students.

**Using STEM-Focused Teacher Preparation Programs to Reimagine Elementary Education** presents anecdotal stories of how elementary education programs have altered their content offerings, field experiences, and curricula to expand their teacher candidates' knowledge and exposure to STEM disciplines and fields. Covering key topics such as diversity, teacher education, and technology integration, this premier reference source is ideal for industry professionals, policymakers, administrators of K-12 education, pre-service teachers, teacher educators, researchers, scholars, academicians, practitioners, instructors, and students.



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## Topics Covered:

- Clinical Teachers
- Community Outreach
- Diversity
- Elementary Education
- Integrated Experiences
- Micro-Credentials
- STEM Education
- Teacher Education
- Teacher Preparation
- Technology Integration

**Subject:** Education

**Classification:** Edited Reference

**Readership Level:** Advanced-Academic Level  
(Research Recommended)

**Research Suitable for:** Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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