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The freshman research initiative as a model for addressing shortages and disparities in STEM engagement.

Peterson, Mark A. (ed.) et al., Directions for mathematics research experience for undergraduates. Based on the conference “New directions for mathematics research experiences for undergraduates”, Mount Holyoke College, South Hadley, MA, USA, June 21–22, 2013. Hackensack, NJ: World Scientific (ISBN 978-981-4630-31-3/hbk; 978-981-4630-33-7/ebook). 181-212 (2016).

From the text: In the United States, there currently exists a shortage of STEM (Science technology engineering and math) graduates from colleges and universities. Of those that do graduate with these degrees, they are often underprepared for the rigors of the workplace due to the majority of their didactic experience coming from lecture-based formats. Higher education administrations are beginning to see the need for change in the way that science is taught to more effectively foster students’ abilities to assimilate, create and present scientific knowledge.

Classification: B40 A40 D35 D45

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