

Nanotechnology Frontiers at 20 years of NNI

Proceedings, December 1, 2020

<http://www.nseresearch.org/2020/>

Broadening Participation in STEM through Nanoscale Science and Engineering Education

Abby Ilumoka

National Science Foundation

Abstract

The changing nature of life and work today presents America with both opportunities and challenges. The enabling effects of scientific learning and innovation can be leveraged to combat the disruptive effects of global health and economic crises and to transform the nature and scope of available jobs with unprecedented speed. Broadening participation in STEM – crucial to ensure that the Nation thrives in a rapidly evolving 21st century world - is part of NSF's strategic plan to strengthen the STEM fields and enhance STEM literacy by engaging broad spectrum of individuals in STEM in the traditional period stretching from pre-kindergarten to college as well as continually throughout life. NSF has key roles to play as society continues to navigate the complex and evolving landscape of COVID-19 today. NSF Nanoscale Science and Engineering education programs are continuing to contribute immensely to building capacity in all people in STEM learning and professional training, particularly those from groups that have been traditionally underrepresented in STEM fields.