

Nanoscale science, engineering and technology (enabled by nanomanufacturing and nanofabrication) are progressing at a rapid pace. This progress presents a number of challenges/opportunities to science/engineering education, including the incorporation of new knowledge at the nanoscale into curricula, preparation of an appropriately trained workforce, education of the public to enable more insightful risk management decisions as nanostructure enabled technologies proliferate, and utilization of nanoscale “buzz” to attract interest in science/engineering by students. In the context of the present U.S. initiative to promote STEM education, this presentation will discuss the state-of-art in NSE education in the several venues: K-12, community college/technical college, university (BS/MS), PhD programs, continuing, and informal. Deficiencies will be identified, as will opportunities to make NSE education more effective.