

ABSTRACT

THE NSF ADVANCED TECHNOLOGICAL EDUCATION (ATE) CENTER FOR NANOFABRICATON MANUFACTURING EDUCATION

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The NSF ATE Regional Center for Nanofabrication Manufacturing was established in 2001. Through the Center, more than 50 associate and baccalaureate degree programs in nanofabrication have been established at colleges and universities across Pennsylvania, including community colleges, State System of Higher Education universities, and Penn State campuses. The key feature of the Center that enables community colleges and other partner institutions to offer degree programs in nanofabrication is a suite of six nanofabrication courses taught three times per year (fall and spring semesters and summer session) at the Penn State site of the NSF-sponsored National Nanofabrication Infrastructure Network (NNIN). The Center also offers enormously popular summer *Nanotech Camps* for high school students (grades nine and above), as well as intensive, three-day professional development workshops for educators and industry personnel. The Center also assists educational institutions across the nation to develop nanotechnology programs, and works with industry partners to design and deliver incumbent workforce development programs and to develop skill standards for nanotechnology workers.