

**Infrastructure with Impact:
The National Nanotechnology Coordinated Infrastructure (NNCI)**

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The National Nanotechnology Coordinated Infrastructure (NNCI) is an NSF-funded network of academic nanofabrication and characterization sites and their partners, formed to advance research in nanoscale science, engineering and technology. The 16 NNCI sites, involving 24 universities as well as other non-university partners, provide researchers from academia, small and large companies, and government with access to university user facilities with leading-edge fabrication and characterization tools, instrumentation, and expertise within all disciplines of nanoscale science, engineering and technology. These facilities and expertise further support meaningful and comprehensive education and outreach activities as well as studies of the societal and ethical implications (SEI) of nanotechnology. Collectively, the NNCI offers access to more than 2,000 tools located in 69 distinct facilities. In Year 3 of the NNCI, these tools were accessed by more than 13,000 users including >5,000 newly trained users and nearly 3,400 external users, representing >200 academic institutions, >900 small and large companies, ~50 government and non-profit institutions, as well as 46 foreign entities. Overall, these users performed more than 1,000,000 hours of work within the facilities.

Brief biographic description: Jacob L. Jones is a Professor of Materials Science and Engineering, Director and Principal Investigator of the Research Triangle Nanotechnology Network, Director of the Analytical Instrumentation Facility, and a University Faculty Scholar at North Carolina State University. His research interests include synthesis, properties, and structure of ferroelectric and piezoelectric materials, nanotechnology, and materials characterization. He has received numerous awards for his research and education activities, including an NSF CAREER award, a Presidential Early Career Award for Scientists and Engineers (PECASE), the IEEE Ferroelectrics Young Investigator Award, the NC State College of Engineering George H. Blessis Outstanding Undergraduate Advisor Award, the 2019 NC State Alumni Association Outstanding Research Award, and is a Fellow of the American Ceramic Society.

