

**Jag Sankar**

Distinguished University Professor and White House Millennium Researcher  
Director - NSF- ERC for Revolutionizing Metallic Biomaterials and CAMSS  
North Carolina A&T State University  
Greensboro, NC 27411

Professor Sankar over the past 36 years has developed a high-profile, internationally recognized, advanced broad-based materials innovation and technology activities at NC A&T State University (NCAT), Greensboro, NC. He serves/d as director of the Center for Advanced Materials and Smart Structures, National Science Foundation's (NSF) –CREST program, Director for the Navy Center for Nanoscience and Nanomaterials, and Site coordinator for the NSF- Nanoscale Science and Engineering Center. Also under his leadership, NCAT was chosen (2008) to house the NSF's Generation 3 - Engineering Research Center (ERC) for Revolutionizing Metallic Biomaterials. The ERCs are considered the crown jewel of NSF and only select few universities over past 40 years have been awarded after a gargantuan competition to conduct transformational and revolutionary engineering innovation for the economic impact and global leadership of the nation. Through these centers, Sankar and the international team of collaborators he has assembled over the years have positioned NCAT in various leading advanced materials Research and Developments through innovative public- private partnerships, surface engineering, convergence of engineering and science in transformational biomedical implant technologies.

The author of more than 400 peer-reviewed articles, book chapters, and scientific papers, Sankar as PI alone, has generated more than \$ 60 million of competitive research funding for NCAT (equipment infrastructure > \$14M under one umbrella encompassing 25,000 sq.ft of innovation ecosystem space), filed ten invention disclosures and patents, has organized and sponsored more than 25 international conferences/symposia and has given more than 35 Plenary/Keynote/Invited special address in major get-togethers this decade related to future directions in transformational materials and nano/bio research, education, innovation, economic impact and growth and next generation workforce development. He also played a key role in establishing the BS, MS Bioengineering degree programs at NCAT, the first stand alone at an HBCU in the nation.

Dr. Sankar is leading a sincere effort in making value to American knowledge economy through innovation, translation, manufacturing technologies in broad-based materials with underpinning innovative education, outreach and broadened participation

*Some of Sankar's recognitions include,*

*2015 Order of the Long Leaf Pine Award- highest civilian honor given by the Governor of North Carolina, and*

*2010-Oliver Max Gardner Award, the highest faculty honor from the University of North Carolina (UNC) 17 campus institution System -given for the greatest contributions to the welfare of the human race*

*Other recognitions include*

*the White House Millennium Researcher award from the Department of Education,*

*2004 AAAS Mentor Award- publisher of "Science",*

*2017 BEYA – STEM Innovation award*

*One of the first Distinguished University Professors at NC A&T, Greensboro, NC (in its 129 years history)*

*ORNL/DoE recognition, Best Teacher, Highest Researcher Award, recognitions from ASME etc.*

*The Business Journal of the Greater Triad area recognized him as "one of the most influential persons for 2009, 2010, 2011, 2012, 2013, 2014 and 2015 in the Triad Region, NC, USA.*

*He is a Fellow of the American Institute for Medical and Biological Engineering (AIMBE), National Institute of Aerospace (NIA), NanoSMAT society and in the advisory board of universities and centers around the globe.*

*He has an honorary professorship title, 2009 from Chonbuk National University, S. Korea and was part of their World Class University Initiative opening.*

*He has served in various Blue ribbon panels at different levels including NC Governor's task force on Nanotechnology for NC Economy and NC Bio/ medical devices and at various reviewing capacities at the NSF and other organizations including STPI/White House.*

*On the eve of India's Republic Day Celebration, Jan 25<sup>th</sup> 2011, Dr. Sankar was recognized with the coveted "Hind Rattan Award" at the 30th International Congress of Non-Resident Indians (NRI).*

*Feb 2011, University of North Carolina (UNC) 17 campus institution System appointed him to its Blue Ribbon Charter Team (Defense Application Group) to work with US Army Special Operations Command on warfighter technologies to economic impact with UNC system focus/ strength.*

**OTHER:**

*Special Invited key addresses/workshop addresses etc at the National Research Council, National Academy of Engineering, National Academy of Sciences Meetings and for the Board for S &T Innovation, DC, National Science Foundation, National SBIR get together,*

*American Society for Engineering Education, TV and news media numerous times including "Science Nation" and high level decision committees at various federal agencies, regional, national and international organizations.*