



Omkaram (Om) Nalamasu, Ph.D.

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Dr. Omkaram (Om) Nalamasu is group vice president and chief technology officer (CTO) for Applied Materials, Inc. In this role, he reports to chairman and CEO Mike Splinter and provides critical technological insight to maintain Applied's technology leadership in the industries it serves.

He previously was corporate vice president and deputy CTO, and served as general manager for the company's Advanced Technologies Group (ATG) from June 2006 to January 2011. In this role, he successfully led the company's innovation efforts through funding and incubation of long-term R&D/product development investments, funding of global academia and consortia and venture capital investments into start-ups, as well as through value-added partnerships with customers, supply chain partners and government funding agencies.

Dr. Nalamasu is a recognized expert in materials science and technology and brings extensive experience and passion in driving innovation to Applied. He previously was vice president of research and a New York State Foundation for Science, Technology and Innovation (NYSTAR) distinguished professor of materials science and engineering, as well as professor of chemistry at Rensselaer Polytechnic Institute (RPI). He was founding director of the \$20 million Center for Future Energy Systems to help meet New York State's goal of attaining 25 percent of its energy needs from renewable sources by the year 2012. He also conceived and founded the Center for Computational Nanotechnology Innovations (CCNI), a \$100 million program established in partnership with NY state and IBM to create the world's fastest university-based supercomputing center at RPI.

Prior to joining RPI in 2002, Dr. Nalamasu was the chief technical officer of the New Jersey Nanotechnology Consortium, a public/private nonprofit enterprise he co-founded to foster nanotechnology partnerships across academia, industry, and government using Bell Labs' \$400 million device fabrication facilities in Murray Hill, NJ. He has held key research and development leadership positions at AT&T Bell Laboratories, Bell Laboratories/Lucent Technologies, and Agere Systems, Inc., and served as director of Bell Laboratories' Nanofabrication Research Laboratory, MEMS and Waveguides Research, Condensed Matter Physics organizations.

Dr. Nalamasu has received numerous awards including the 2006 Albany-Colonie Chamber of Commerce's "Tech-Valley's Hot 10 Personalities;" the 2005 Pride of India Gold Award from the Non-Resident India (NRI) Institute; the 2004 ACS Roy W. Tess Award; the 2000 ACS Team Innovation Award; the 1998 Japan Photopolymer Science and Technology Award; two R&D 100 Awards; and the 1997 Bell Labs President's Gold Medal. He has published more than 180 papers, review articles, and book chapters, has received more than 20 patents and edited two books.

His primary research interests are in the areas of nanomanufacturing, nanopatterning, electronic and photonic materials, and lithography, with special emphasis on applying patterning and materials know-how for device fabrication for electronics, photonics and energy applications. He has made seminal contributions to the fields of optical lithography and polymeric materials science and technology.

Dr. Nalamasu is a member of the Semiconductor Research Corporation (SRC) board of directors, and the National Academies Panel on Materials Science and Engineering advisory boards. He also serves on several technical advisory boards and university advisory committees. He received his Ph.D. in chemistry from the University of British Columbia, Vancouver, Canada.