

Professor Subodh Gautam MHAISALKAR
Tan Chin Tuan Centennial Professorship [Engineering
From 1 August 2014

Executive Director
Energy Research Institute @ NTU (ERI@N)

Professor, School of Materials Science and Engineering,
Nanyang Technological University, Singapore.



Professor Subodh received his B.Sc from BTech Indian Institute of Technology, Bombay in 1984. He completed his MSc in 1987, Ph.D. in 1990 and conducted his post-doctoral research at The Ohio State University.

Prior to joining NTU in 2001, Professor Subodh has over 10 years of research and engineering experience in the microelectronics industry where he held senior managerial positions in STATS Singapore, National Semiconductor, and SIMTech. He is currently the Executive Director of the Energy Research Institute @ NTU (ERI@N), a pan-University multidisciplinary research institute for innovative energy solutions.

RESEARCH / STUDIES

His main areas of research comprise semiconductor nanomaterials, photovoltaics, optoelectronics devices, and printed electronics. Common to these projects are methods of processing of semiconductors (perovskites, organic, nanocarbons, or oxide nanowires), fundamental device physics studies, and device integration. For his work in Organic Thin Film Transistors, Subodh and his team recently won the IEEE 2008 George E. Smith Award. Subodh is also the recipient of Ohio State University's Professional Achievement Award 2012.

He has conducted several major research projects including, Competitive Research Programme Funding from the National Research Foundation on "Nanonets: New Materials & Devices for Integrated Energy Harnessing & Storage". He has also researched on Polymer & Molecular Electronics with A*STAR, and a DARPA funded programme on printed charge storage devices. He has raised more than \$20 million project funding from external sources, key funding sources and collaborations. Based on these efforts a startup company that focuses on energy harvesting and storage, Printed Power Pte Ltd has been established and further research is ongoing with companies such as Dyesol to take this effort towards commercialization. For his efforts in

supporting innovation and commercialization efforts, Subodh received the Nanyang Award for Innovation and Entrepreneurship in 2012.

Professor Subodh has graduated 15 Masters and PHD students and is currently supervising a group of 13 PhD students and research fellows. He has published more than 300 research papers and has active collaborations with UCLA, Northwestern University, CEA/CNRS France, IIT-Bombay, NUS, and local research institutes.