

# Professor Ashutosh Sharma

Secretary to the Government of India,  
Department of Science and Technology



Prof. Ashutosh Sharma is the Secretary, Department of Science and Technology, Government of India since January 09, 2015. He was a professor (1997-), an Institute Chair Professor (2007-) and the Head (2003-05) of Chemical Engineering, and the founding Coordinator of Nanosciences Center and Advanced Imaging Center at the Indian Institute of Technology at Kanpur. Ashutosh received his PhD from the State University of New York at Buffalo ([SUNYAB](#); 1988) working with Prof. Eli Ruckenstein—a recipient of the US Medal of Science, his MS from the Pennsylvania State University (1984) and B.Tech. from IIT Kanpur (1982).

Ashutosh has served on the Governing Boards/Councils of over 15 prominent scientific institutions in India and has had a broad international experience as a research faculty at SUNY Buffalo School of Medicine (1988-90), visiting faculty at University of Texas at Austin, University of Western Ontario, University of Erlangen-Nuremberg and the World Class University Program of South Korea and as a Member of the European Research Commission.

[Ashutosh's research contributions](#) are highly interdisciplinary, spanning a wide range in nanotechnology; carbon based nanocomposites and MEMS/NEMS in energy, health and environment; functional interfaces; micro/nano-mechanics of soft matter; nano-patterning and nanofabrication; colloid and interfacial engineering; biomaterials & biosurfaces; wetting, adhesion and thin polymer films;-- areas in which he has published over [300 peer reviewed papers](#), filed over 10 patents, given over 100 invited or key note conference presentations and mentored a nanotechnology startup.

Ashutosh is a recipient of numerous honors and awards including the inaugural [Infosys Prize](#) in Engineering and Computer Science, [TWAS Science Prize](#) of the World Academy of Sciences, Bessel Research Award of the Humboldt Foundation, J. C. Bose Fellowship, [Bhatnagar Prize](#), Homi J. Bhabha Award of UGC, The Syed Husain Zaheer Medal of INSA, [Distinguished Alumnus Awards](#) of IIT Kanpur and SUNY Buffalo and the Life-time Achievement Award of the Indian Science Congress.

Ashutosh is an elected Fellow of The [Indian National Science Academy](#), [The Indian Academy of Sciences](#), [The National Academy of Sciences, India](#) and [Indian National Academy of Engineering](#), The World Academy of Sciences ([TWAS](#)) and the Asia-Pacific Academy of Materials. He has also served on the Councils of the first two. He is has been an associate editor of [ACS Applied Materials and Interfaces](#), [Proceedings of Indian National Science Academy](#) and *ASME Journal of Micro- and Nano-Manufacturing* and has been on the editorial boards of several journals: *Carbon*; *ACS Industrial and Engineering Chemistry Research*; *Current Science*; *Nanomaterials and Energy*; *Chemical Engineering Science*; *Journal of Colloid and Interface Science*; *Canadian Journal of Chemical Engineering* and *Indian Chemical Engineer*.

Ashutosh's other interests are in ancient history and philosophy, poetry and [art](#).