

Ram B. Gupta, Ph.D.

**Associate Dean for Research | Professor of Chemical & Life Science Engineering at VCU
College of Engineering**

Engineering West Hall, Suite 331, Richmond, VA, US

Research interest: batteries, electrochemistry, sustainable energy, biofuel, biomaterials, supercritical extraction, and nanomedicine.

Biography

Ram B. Gupta began his tenure as an associate dean and professor in the College of Engineering at the Virginia Commonwealth University on August 15, 2014. Since then, the College has enhanced its national reputation as an engine of education and research and made important contributions to the success of student, staff, and faculty. With his passion and expertise in creating and maintaining an innovative, healthy, and excellent academic and research environment, he grew the sponsored research multi-fold. Widely regarded as one of the nation's leading researchers on sustainable energy, materials, and technologies, Gupta is a frequent keynote speaker and writer on the new developments and innovations. Media outlets, including Reuters, London Daily Mail, Japan News, Science Newsline, Chemistry News, and Agriculture Markets, have covered his work. His books are Nanoparticle Technology for Drug Delivery (2006, Taylor & Francis), Solubility in Supercritical Carbon Dioxide (2007, CRC Press), Hydrogen Fuel: Production, Transport, and Storage (2008, CRC Press), Gasoline, Diesel and Ethanol Biofuels from Grasses and Plants (Cambridge University Press, 2010), and Compendium of Hydrogen Energy (Elsevier, 2015), which are used worldwide. Previously, Gupta served the U.S. National Science Foundation (NSF) as director of the Energy for Sustainability program. Currently, he provides expert help to NSF in its Engineering Research Centers program. He began his career as a faculty member in engineering at Auburn University, rising through the ranks and serving as the chair of graduate program in chemical engineering. For his academic excellence, he has been given many notable awards, endowed professorships, and 54 research grants. Gupta is a Fellow of the American Institute of Chemical Engineers and a Fellow of the Alabama Academy of Science. He received B.E. from Indian Institute of Technology, M.S. from University of Calgary, and Ph.D. from the University of Texas at Austin, all in chemical engineering. After that, he completed postdoctoral work at the University of California, Berkeley. Recently, he completed Management Development Program at Harvard University.

Industry Expertise

Energy, Pharmaceuticals, Cleantech, Nanotechnology, Chemicals, Research, Education/Learning

Areas of Expertise

Batteries, Electrochemical engineering, Bio-carbon, Supercritical carbon dioxide technology, Nanotechnology, Nanoparticles, Nanomedicine, Controlled release, Supercritical water technology, Hydrogen fuel, Renewable fuels, Bio-energy, Liquid fuels from methane and biomass, CO₂ sequestration, Photochemical engineering, Oil spill remediation using benign dispersants, Renewable materials, Nickel-cobalt-Manganese cathode

Affiliations

Fellow, American Institute of Chemical Engineers, Fellow, Alabama Academy of Science

Education

University of California, Berkeley
Postdoc Chemical Engineering

The University of Texas at Austin
Ph.D. Chemical Engineering

University of Calgary
M.S. Chemical Engineering

Indian Institute of Technology, Roorkee
B.E. Chemical Engineering

Harvard University
Management Development Program

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