

Prof. Jyotsna Singh is a distinguished physicist, visionary academic leader, and internationally recognized researcher, serving as Director, Research and Director of the Institute of New and Renewable Energy at the University of Lucknow, India. As a Professor of Physics, she has made significant contributions to particle physics, neutrino science, radiation physics, and renewable energy research. Through her scholarly achievements and academic leadership, she has played a pivotal role in advancing research excellence, innovation, and sustainable technological development. Her career exemplifies a rare blend of fundamental scientific inquiry and a deep commitment to addressing societal and environmental challenges through science and technology.

After earning her Ph.D. in Nuclear Physics, Prof. Singh established herself as a leading researcher in high-energy and neutrino physics. Prof. Singh has international academic experience, having served as a Visiting Assistant Professor at the University of South Carolina, USA. This appointment provided her with valuable exposure to global research collaborations and advanced scientific investigations in the field of physics. and has actively participated in globally renowned scientific programmes, including the CERN Visitor Programme, Switzerland. She is a core contributor to the Indian Neutrino Observatory (INO) and an active member of the international Deep Underground Neutrino Experiment (DUNE) Collaboration at Fermilab, USA, contributing to cutting-edge research aimed at understanding the fundamental properties of matter and the universe.

In parallel with her work in frontier physics, Prof. Singh has emerged as a prominent advocate for renewable energy and sustainable technological development. As a recognized training partner of the Ministry of New and Renewable Energy (MNRE), Government of India, she has played a significant role in promoting renewable energy awareness, professional training, and skill development, particularly in solar energy technologies. Her expertise is further recognized through her membership on the

State-Level Bio-Energy Policy Committee, where she contributes to policy discussions and strategic planning for sustainable energy initiatives.

Prof. Singh has authored more than 120 research publications in leading national and international journals and has successfully guided numerous doctoral scholars, young researchers, and academic professionals. Her research output, leadership in multidisciplinary projects, and commitment to scientific excellence have earned her widespread recognition within the academic community. She has also organized and led numerous national and international conferences, faculty development programmes, workshops, and research initiatives aimed at fostering innovation, collaboration, and knowledge dissemination.

Beyond her academic accomplishments, Prof. Singh is widely respected for her vision of integrating scientific research with societal needs. Her work bridges the domains of fundamental physics, renewable energy, environmental sustainability, and human development, making her a strong voice in addressing some of the most pressing global challenges of our time. Through her research leadership, mentorship, and public engagement, she continues to inspire the next generation of scientists while advancing the cause of sustainable and evidence-based development.