

Dr. Bharat Singh Rajpurohit is Associate Professor in the school of Computing and Electrical Engineering at Indian Institute of Technology Mandi, H.P., India. He has received PhD from IIT Kanpur in 2009 and MTech from IIT Roorkee in 2005. Dr. Rajpurohit has visited TU Dredesn on Humboldt Fellowship in 2013. He has relevant expertise for emerging electric power systems, micro-grids, energy efficiency and smart grids.

Research Interests

- Renewable Energies, Power Electronics & Grid Integration of Renewable Energies, micro-grids

Current Research Projects

	Funding Agency	Project Title	Amount
1.	DST-SERI	A Multi-dimensional Smart Energy Grids Analysis of Indian Scenario	134 Lakhs
2.	DST-UKIERI	Smart Multi-Terminal DC micro-grid for autonomous zero-net energy buildings	27 Lakhs
3.	FIST-DST	Setting up Real-Time Digital Simulation Facility at IIT Mandi	249 Lakhs
4.	Naval Research board	Design and development of high performance synchronous machine (PMSM) based drive for motion control applications	24.95 Lakhs
5.	DST-SERB	Development of advanced/optimized control techniques of grid connected power electronics system for renewable energy sources	20 Lakhs

He has published good number of research publications, few of them are listed below. He is senior member of IEEE.

Latest Publications

1. R. K. Chauhan and **B. S. Rajpurohit**, "DC Distribution System for Energy Efficient Buildings," 18th National Power Systems Conference, NPSC 2014, Dec. 18-20, 2014, IIT Guwahati.
2. R. K. Chauhan, **B. S. Rajpurohit** and N. M Pindoriya, "DC Power Distribution System for Rural Applications," 8th national conference on Indian energy sector – Synergy with Energy and exhibition–INDIAN ENERGY SHOW 2012, Oct. 11-12, 2012, pp. 108-112, Ahmedabad, Gujarat, India.
3. R. K. Chauhan, B. S. Rajpurohit, S. N. Singh and F. Gonzalez-Longatt " DC Grid Interconnection for Conversion Losses and Cost Optimization " in a book entitled "Renewable Energy Integration: Challenges and Solutions" Berlin: Springer-Verlag, pp. 327-345, Ed. Dr. Jahangir Hossain and Dr. Apel Mahmud, 2014.
4. **B. S. Rajpurohit**, S. N. Singh and Jacob Østergaard, "Renewable Energy Generation in India: Present Scenario and Future Prospects," *IEEE PES General Meeting*, July 26-30, 2009, Calgary, Canada (Panel Paper).
5. **B. S. Rajpurohit** and S. N. Singh "Development of Grid Connection Requirements for Wind Power Generators in India," *Renewable and Sustainable Energy Reviews*, Vol. 15, No. 3, pp. 1669-1674, April 2011.