

RESUME

Dr. SUSHMA GAIROLA

Ph.D. (Forestry - Environment Management)

Scientist/ Engineer 'SC'

Uttarakhand Space Applications Center (USAC)

Department of Science & Technology, Govt. of Uttarakhand

Ph. No.- +91-0135- 2763239(O), Fax:- +91-0135- 2769851(O)

Mobile:+91-8057220005

E-mail: sushmi17@gmail.com/sushbelieves@yahoo.co.in



CAREER OBJECTIVE

Work for a scientific institution/organization and to obtain a challenging position in the area of Geospatial Technology which gives me an opportunity to synthesize my academic learning and technical skills for Environmental conservation and societal development.

ACADEMIC QUALIFICATION(S)

- **Ph.D. (2009) in Forestry (Environmental Management)** from **Forest Research Institute (Deemed University)** Dehradun (*Research Topic - "Geospatial analysis for resource utilization pattern in Balkhila Sub watershed in Gopeshwar, Garhwal Himalaya"*).
- **Master of Science (M.Sc.) in Environmental Science** from BCC Srinagar, H.N.B. Garhwal University, Srinagar, Uttarakhand, 1999 (**68.77%**).
- **Bachelor of Science in Botany & Rural Technology** from BCC Srinagar, H.N.B. Garhwal University, Srinagar, Uttarakhand, 1997 (**65.33%**).
- **High School and Intermediate in Science from UP Board** with Schooling in Government Girls Inter College Rudraprayag & Government Inter College Rudraprayag, 1992 and 1994 respectively.

PROFESSIONAL QUALIFICATION(S)

- **Post Graduate Diploma in Geo-informatics for Environmental Assessment and Disaster Management (PGD-EADM)** from **Indian Institute of Remote Sensing (IIRS)**, Dehradun, Department of Space, Government of India, 2003.
- **Post Graduate Diploma in Rural Development (PGDRD)** from Indira Gandhi National Open University (IGNOU), 2002.
- **One year Diploma in Computers Advanced Diploma in Software Technology** from Hiltron Calc Gopeshwar, District Chamoli, 2001.

AREA OF SPECIALIZATION

- Remote Sensing and Geographical Information System (GIS).
- Environmental Conservation and Management.
- Natural Resources Management, Infrastructure Development Planning
- Disaster Management and Societal Development Programme
- Land use dynamics
- Training and Capacity Building

PROJECT(S) UNDERTAKEN

- GIS mapping and Baseline Survey of Slum areas under National Urban Health Mission (NHUM).
- “Health Information System for Uttarakhand State using Geospatial Techniques” a joint project of USAC and Uttarakhand Health and Family Welfare Society.
- School Mapping Information System for Uttarakhand State Using Geospatial Techniques project of Sarva Sikhsa Abhiyan, Uttarakhand.
- Rapid Damage Estimation for the Mandakini Valley Flood using Pre & Post High Resolution Satellite Data in collaboration with World Bank.
- National Wetland Inventory and Assessment (NWIA), using multi temporal satellite data, a project of Ministry of Environment and Forest of India under NNRMS programme of Department of Space.
- Land use and land cover Mapping on 1:50,000 scale for the entire state using multi-seasonal satellite data, a project of NRSC, Department of Space.
- Sericulture Development using Remote Sensing and GIS for five District of Uttarakhand, a project of NESAC, Department of Space.
- Periodical monitoring of changes in Natural Resource regimes (Land use change analysis for six states of India) Under NATCOM project of NRSC (DOS).

- Land Use and Urban Survey (Development of suitable urban master plan) for Nainital city & Gopeshwar town, a programme of Government of Uttarakhand.
- Mapping, assessment & monitoring of natural resource on different scales under Natural Resource Management programme a programme of Government of Uttarakhand.
- Water Information and Supply Analysis Using GIS Techniques (*A Case Study of Dehradun District*).
- GIS and School Mapping as Educational Decision Support System (EDSS), for Dehradun District.
- A Geospatial Analysis of Health Care Services in District Dehradun.
- Large Scale Mapping of Simgad and Nanakosi Sub-watersheds of Almora Districts.
- Road Information and Network Analysis (A Case Study of Dehradun District)
- Resource Utilization Pattern in Balkhila Sub-Watershed (Garhwal-Himalaya, Gopeshwar) -A Geospatial Approach, for partial fulfillment of PG Diploma Course in EADM at IIRS, Dehradun.
- Integrated Resource Planning for Evolving Sustainable Development of Village Ecosystem in Balkhila Sub-Watershed, Gopeshwar (Garhwal Himalayas).
- Forest Fire Assessment in Motichur Range using satellite data.
- Chipko - An Environmental Protection Movement for partial fulfillment of M.Sc. in Environmental Science, H.N.B.GarhwalUniversity, Srinagar.
- Role of Education in the Development of Gramsabha Gwar, District Chamoli, Uttaranchal.
- Land Use/ Land Cover Change Assessment and Analysis of Industrial Development by using High resolution Satellite Imageries with the help of Geospatial Techniques.
- Electricity Utility Network Information System for Vasant Vihar Phase - 1 Region of Dehradun District using RS, GIS and GPS Techniques.

ACHIEVEMENTS

- Awarded by Hon'ble Chief Minister, Uttarakhand for excellence contribution in successful completion of *Nanda Rajjat Yatra* 2014.
- As a Secretary of ISG Dehradun Chapter, Successful organization and hosting of *Geometrics 2009* held during February 04 - 06, 2009.
- *School Mapping Information System for Uttarakhand State*- A project prepared for Sarv Shiksha Abhiyan, Dehradun.
- *Health Information System for Uttarakhand State*- A project prepared for Uttarakhand Health and Family Welfare Society, Uttarakhand

MEMBERSHIP

- Life Member of Indian Society of Geoinformatics (ISG), Dehradun Chapter.
- Life Member of Indian Meteorological Society (IMS), Dehradun Chapter.

EXPERIENCE(S)

11 years of extensive Remote Sensing & Geographic Information Systems (GIS) experience in Natural resource management, Land use dynamics & Environment conservation.