

Manpreet Singh

Email: singh.manprt@gmail.com

Contact no. +91 9464557704



CAREER OBJECTIVE

To work in strong, forward thinking, progressive, equal opportunity organization where I can apply the knowledge I have obtained, involving maximum utilization of my skills and experience to deliver beyond expectations and meeting the challenges of real life projects.

ACADEMIC QUALIFICATION

Examination	University/Institute	Year	Marks
● M Tech Nanotechnology (Five Years Integrated)	<i>SGGSWU Fatehgarh Sahib (Punjab)</i>	2011-2016	6.82 CGPA
● Certificate Course (10+2)	<i>SLIET Longowal, Sangrur (Punjab)</i>	2009-2011	76.19 %

FIELDS OF INTEREST

- Nanomaterials, Bio-mimicking, Metal Oxide Nanoparticles, Energy harvesting Devices, Nanophotonic, Armour materials, Micro and nanofabrication

ANALYTICAL AND TECHNICAL SKILLS

- **Chemical synthesis** (Nanoparticles, Quantum dots, core-shell nanoparticles, Epoxy structures)
- **Instruments** (UV-visible spectrophotometer, Florescence spectrophotometer, Particle size analyser, FTIR spectroscopy, Electrochemical workstation etc)
- Structural microscopic mapping of materials using FESEM images.
- Proficient with Microsoft Office (Word, Excel, Power Point), Origin, MATLAB

MAJOR PROJECTS

- **Nano composite material for sensing heavy metals in water** (Masters Project)
(Guide Prof Xueyong Wei School of Mechanical Engineering, Xi'an Jiaotong University, Xi'an, China, Mar-Jul 2016)
- **Enhanced photocatalytic activity for the degradation of dye under visible-light irradiation using PEDOT:PSS hybridized CdS-TiO₂** (Major project)
(Guide Er Amandeep Singh, Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Punjab), Jan-May 2015)
- **Bio-mimicking of natural materials (sea shell)** (Summer internship)
(Guide Dr Balasubramanian K (Professor and HOD of Material Engineering Department), Defence Institute of Advance Technology, Pune (Maharashtra), Jun-Aug 2014)

- **Synthesis, structural, microstructural, magnetic and optical properties of CuO, CoO and CuCoO nanoparticles prepared by sol-gel technique.** (Summer internship)
(Guide Dr. K.C. Verma (Associate Professor), Eternal University, Baru Sahib (Himachal Pradesh), May-Jul 2013)

TEACHING EXPERIENCE

- **Duration:** Jan 2017 – till date.
- **Designation:** Assistant Professor
- **Subjects Taught:** Nano Magnetism, Nanolithography, Top Down Synthesis of Nanomaterials
- **Name and address of employer:** Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, INDIA

PUBLICATIONS/ POSTER PRESENTED AT CONFERENCES

- Nano-engineered Hybrid Hydroxyapatite-grafted Biocomposites for Euspria pulchella mimicking through chaotic flow regimes” Yutika Badhe, K. Balasubramanian, **Manpreet Singh** and A. Aswathy (RSC Advances., 2015, 5, 14712)
- Structural, optical, photocatalytic activity of fructose capped ZnO nanoparticles, **Manpreet Singh**, Parminder Singh, Gurjinder Singh, Mohit Rawat. *Poster presented on International Conference on Recent Advances in Emerging Technologies (ICRAET-2016) SGGSWU Fatehgarh Sahib.*

EXTRACURRICULAR ACTIVITIES

- Mounted Flag marched on Horses in inauguration ceremony of Annual SGPC Games (2013, 2014 & 2016)
- Played National Tent Pegging Championship 2016 & various National/State Endurance events
- Won **Gold & Bronze** medal at State Level Archery competition (2008-2009)
- **Third position** in non-working model competition for presenting on the latest multi-junction solar cell technology in 2013 (SGGSWU).

LANGUAGE PROFICIENCY & OTHER SKILLS

- Can read, write and speak English, Punjabi & Hindi.
- Agricultural skills (Crop Production, Livestock Production, Agri. Mechanics etc.)
- Horse riding, Farriery, Swimming, Photography, Martial Arts, Listening & Recitation Gurbani.
- Able to communicate with people of all ages

PERSONAL INFORMATION

Date of Birth: 23rd May 1993
Permanent Address: VPO- Chanan Khera, Tehsil- Abohar, District- Fazilka, Punjab (152117)
Gender: Male
Nationality: Indian
Marital Status: Unmarried