

## Sunil Bhardwaj, Ph.D.



**Name** : **Dr. Sunil Bhardwaj**  
**Fathers Name** : **Parasnath Bhardwaj**  
**Gender** : **Male**  
**Nationality** : **Indian**  
**Marital Status** : **Married**  
**Date of Birth** : **14<sup>th</sup> August 1980.**  
**Place of Birth** : **Azamgarh, Uttar Pradesh, INDIA.**  
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### Awards and Fellowships:

- **Training and Research in Italian Laboratories (TRIL) fellowship** form International Centre for Theoretical Physics Trieste, Italy (2019).
  - **First Prize in Oral Presentation** at International Conference on “Recent Advances in Fundamental and Applied Sciences” (RAFAS 2016) at LUP Jalandhar.
  - **Entrepreneur Award** for best demonstrating the understanding of entrepreneur skills at Workshop on Entrepreneurship for scientists and Engineers at ICTP, Trieste (2016).
  - **Training and Research in Italian Laboratories (TRIL) fellowship** form International Centre for Theoretical Physics Trieste, Italy (2012).
  - **Post-doc Fellowship** within the FP7 European project “Technotubes”, National Laboratory TASC, Trieste, Italy. 2010.
  - **MIUR (INDO – ITALIAN Fellowship)** for Postdoctoral research at Dipartimento Ingegneria Elettrica (DIE), University of Genova, GENOVA, ITALY. 2009
  - **Senior Research Fellow (SRF)** Board of Research in Nuclear Sciences (BRNS), Bhabha Atomic Research Centre BARC, MUMBAI, INDIA. 2007
  - **Junior Research Fellow (JRF)** Board of Research in Nuclear Sciences (BRNS), Bhabha Atomic Research Centre BARC, MUMBAI, INDIA. 2005
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**Work Experiences:**

From	To	Post Held	Institute	Activity & Responsibility
01/10/2019	30/09/2021	TRIL Fellow	Istituto Officina dei Materiali - CNR, National Laboratory TASC, Area Science Park - Basovizza, Edificio MM, Strada Statale 14, Km.163.5 I-34149 Trieste, ITALY.	Research
13/01/2019	20/09/2019	Senior Scientist	Powergear Limited, Chennai, India	Research
27/07/2016	30/11/2017	Assistant Professor	Lovely Professional University, Jalandhar, India.	Research & Teaching
01/04/2015	31/03/2016	Research Associate	Istituto Officina dei Materiali - CNR, National Laboratory TASC, Area Science Park - Basovizza, Edificio MM, Strada Statale 14, Km.163.5 I-34149 Trieste, ITALY.	Research
01/04/2012	31/03/2015	TRIL Fellow	International Centre for Theoretical Physics (ICTP), Trieste, Italy.	Research
01/04/2010	31/03/2012	Research Associate	Istituto Officina dei Materiali - CNR, National Laboratory TASC, Area Science Park - Basovizza, Edificio MM, Strada Statale 14, Km.163.5 I-34149 Trieste, ITALY.	Research
17/03/2009	16/03/2010	Postdoc	Dipartimento Ingegneria Elettrica (DIE), University of Genova, Genova, ITALY	Research

**Education:**

Exam	University / Board	Start	Month & Year of passing	Subject	Percentage of Marks
Ph. D. (Chemistry)	University of Mumbai	May 2005	October 2008	Chemistry	
M. Sc. in Organic Chemistry	University of Mumbai	July 2001	31 May 2003	Organic Chemistry	60.30%
B. Sc. (Chemistry)	University of Mumbai	July 1998	27 June 2001	Chemistry	73.5%
H. S. C.	Maharashtra Board	July 1996	March 1998	Physics, Chemistry, Maths	61.83%
S. S. C.	Maharashtra Board	June 1995	March 1996	Hindi	72.53%

## Skills & Competency:

- Expertise in Chemical Vapour deposition (CVD)
- Expertise in sputter deposition, Electron Vapor deposition, Spin coating etc.
- Synthesis of carbon nanotubes including SWNT, MWNT, Aligned CNT forests etc.
- Synthesis and doping of Graphene
- Expertise in maintenance and handling of Ultra High vacuum (UHV) systems
- Analysis by XPS and UPS
- XPS and UPS Data analysis by IGOR Pro.
- Time resolved and Angle resolved XPS and UPS analysis.
- Determination of work function by UPS.
- Multi peak fittings
- Knowledge of LEED patterns.
- Experience in techniques such as SEM, TEM, STM, XRD, RAMAN and AFM
- Able to identify experimental problems and resolve them independently.
- Track record of working in a multi-disciplinary team, both collaborative and independent research.

## Languages:

Languages	Read & Write	Speak
Hindi	Mother tongue	Mother tongue
English	Advanced	Advanced
Marathi	Intermediate	Intermediate
Italian	Intermediate	Intermediate

I authorize the use of my personal data pursuant to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data".

Date: 01/10/2020

Place: Trieste

(Sunil Bhardwaj)