

## **Soumitra Paul**

Professor

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### **Education:**

Bachelor in Mechanical Engineering, Jadavpur University, Kolkata, India, (1984 to 1988), Rank: 5<sup>th</sup> in a class of 129 students

MTech in Production Science and Engineering, Department of Mechanical Engineering, IIT Kharagpur, (1988 -1989), Rank: 1<sup>st</sup> in the department

Ph.D. in Engineering, Department of Mechanical Engineering, IIT Kharagpur, (1990 - 1994)

Post Doctoral Position: Research Scientist: Faculty of Mechanical Engineering, TU Delft, the Netherlands, (1994 – 1995)

### **Professional Career**

IIT Kharagpur	Visiting Lecturer	December 1995 – February 1998
IIT Kharagpur	Assistant Professor	February 1998 – June 2002
IIT Kharagpur	Associate Professor	June 2002 – April 2007
IIT Kharagpur	Professor	April 2007 – till date

### **Research Interests**

- machining, grinding, cutting tool coating, thick coating,
- finishability of thick coatings,
- high speed grinding of ceramics and carbon fibre ceramic matrix composites
- high speed grinding of aerospace materials
- minimum quantity lubrication in machining and grinding
- micro machining
- machining and grinding of additive manufactured components

## Research Output

h-index: 31 (as per Google Scholars – 26 June 2020)

Total number of citations: 3510 (as per Google Scholars)

## Research Guidance:

### PhD

11 completed

3 ongoing

### MS

4 completed

## Professional Activities:

- Senior Associate Editor of Sadhana - Academy Proceedings in Engineering Sciences
- Editorial Board Member of International Journal of Abrasive Technology
- Referee of different international journals
- DST-FASTTRACK - member of PAC till 2012
- ARDB - member of panel of Materials and Manufacturing (2013 - 2017)
- DST-SERB - member of PAC of Mechanical, Robotics and Manufacturing (2013 – 2016)
- DST-SERB - member of PAC of Mechanical and Civil Engineering (2016 - 2019)
- DST-FIST - member of PAC of Engineering Science (2016 - continuing)

## Awards

- 2019 Al Sonntag Award, Society of Tribologists & Lubrication Engineers USA (2019)
- INAE Young Engineers Award (2000)
- AICTE Career Award for Young Teacher (1998)
- B. M. Belgaumkar Memorial Cash Prize (IIT Kharagpur) (1990)
- Institute Silver Medal (IIT Kharagpur) (1990)

## List of selected sponsored projects

- Study of High Speed Deep Grinding of Titanium alloy and Ceramics Using Monolayer Electroplated Super-Abrasive Wheel – 2016-2019 – 151.77 lakhs – GTMAP – ARDB
- Development of a Cost Effective Left Ventricular Assist Device (LVAD) with Centrifugal Mechanical Circulator, Drive System and Associated Control – 2017 – 2020 – 304.00 Lakhs – IMPRINT – MHRD
- Development and performance evaluation of thermally sprayed ball milled diamond-metal composite powder for bearing surface application – 2013 – 2017 – 43 Lakhs – DST
- Deposition of Thermally Sprayed WC-Co Coating with Carbon Nanotube Reinforcement: A Feasibility Study – 2015 – 2017 – 23.75 Lakhs – GTMAP – ARDB
- Surface Integrity in High Efficiency Grinding by Super-abrasive Wheels – 2005 – 2009 – 25 Lakh – MHRD
- Sputter Coating of Molybdenum Disulphide (MoS<sub>2</sub>) based composite on Cutting Tool – 2004 – 2007 – 12 Lakhs – MHRD
- Advanced Manufacturing – Machining and Grinding – 2002 – 2007 – 275.4 Lakhs – DST
- Machinability study of titanium alloys and its improvement under cryogenic cooling – 2001 – 2004 – 11 Lakhs – DST
- Multi sensor based online condition monitoring for intelligent manufacturing system – 1999 – 2002 – 41 Lakhs – Ministry of Information Technology
- High production machining of steel with cryogenic cooling – 1999 – 2002 – 16 Lakhs – SERC – DST
- Environment friendly grinding of titanium alloys – 1999 – 2002 – 9 Lakhs – AICTE Career Award

## List of International Journal Publications:

<https://scholar.google.com/citations?user=AFOq-YQAAAAJ&hl=en>