

ATUL JAIN

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Last Update : 12 January 2026

1. Education

June 2011- May 2015	PhD in Materials Engineering, KULeuven Belgium
July 2010- June 2011	Pre-doctoral training, Materials Engineering, KULeuven Belgium
June 2007- June 2009	Master of Technology, in Aerospace Engineering (sp. Aerostructures), Indian Institute of Technology, Kanpur
Aug 2003- May 2007	Bachelor of Engineering, in Mechanical Engineering, Indian Institute of Engineering Science and Technology, Shibpur

2. Academic Positions/Responsibilities

Jan 2026 - current	Associate Professor , Indian Institute of Technology Kharagpur Department of Mechanical Engineering
April 2025 – Sept 2025	Assistant Warden , Rajendra Prasad Hall
June 2017-Dec 2025	Assistant Professor , Indian Institute of Technology Kharagpur Department of Mechanical Engineering
Oct 2016- June 2017	Visiting Faculty , Indian Institute of Technology Kharagpur Department of Mechanical Engineering
June 2015- Oct 2016	Post-Doctoral Research Associate , University of Southern California Mork Family Department of Chemical Engineering and Materials Science Member, M.C. Gill Composites Center Faculty Advisor: Prof. Steven Nutt

3. Competitive Research Funding

June 2025 – June 2028	Finite Element Method-Based Numerical Framework for the Design, Simulation, and development of Foldable Composite Booms for Space Applications - (Co-Principal Investigator)- Value: ₹30Lakhs <ul style="list-style-type: none"> Funding agency: Indian Space Research Organization (ISRO)
April 2025 – April 2027	Folk Art Meets Future Tech: Madhubani-Inspired Metamaterials –(Principal Investigator)- Value: ₹10Lakhs <ul style="list-style-type: none"> Funding agency: Gurukripa Research Foundation, IIT Kharagpur
Sept 2022	Global Initiative of Academic Networks (191001L03) –(Principal Investigator) -Value: ₹10Lakhs <ul style="list-style-type: none"> Course title: Mechanics, processing and performance prediction of composite materials Funding agency: Ministry of Human Resource Development, Department of Higher Education, NMEICT, New Delhi
Aug 2022- March 2026	VIRTUAL LABS PROJECT(PHASE-III EXTENDED) - (Co-Principal Investigator)-Value: ₹113Lakhs <ul style="list-style-type: none"> Funding agency: Ministry of Human Resource Development, Department of Higher Education, NMEICT, New Delhi
July 2022 – March 2023	Virtual Labs (Phase III) -(Co-Principal Investigator)- Value: ₹304Lakhs <ul style="list-style-type: none"> Fund Agency: Ministry of Human Resource Development, Govt of India
March 2021- April 2024	Development of high-performance materials through tailoring of 3D printed microstructure (Principal Investigator) Value : ₹48.33Lakhs <ul style="list-style-type: none"> Funding Agency: Science and Engineering Research Board

- Oct 2019- Sept 2022 **Multiscale modelling and Microstructure characterization of 3D printed short fibre composites** (Principal Investigator) -Value: ₹28Lakhs
- Institute scheme for innovative research and development
- April 2011- May 2015 **Fatigue life prediction of random fiber composites using hybrid multiscale modeling methods** (Principal Investigator) -Value: ~₹300 Lakhs (€391k)
- Funding Agency: IWT, The Agency for Innovation by Science and Technology in Flanders, Belgium under the Baekeland Scheme

4. Awards and Honors

- Jan 2025 Elected as an **Associate of the West Bengal Academy of Science and Technology**
- Aug 2024 Received **top teaching feedback in all of IIT Kharagpur** for 2 consecutive years
- Sep 2022 Was awarded the **ASEM-Duo fellowship** by the Academy of Research and Higher education (ARES), Belgium
- Oct 2019 Was awarded the **first prize in the DRDO Dare to Dream Innovation** contest 2019; received the prize from Honorable Defense Minister of India, Shri Rajnath Singh
- May 2015 **Awarded cash prize of 1% of the Baekeland project** for successful and timely completion of all the goals of Baekeland fellowship by IWT Belgium

5. Technology Transfer to Industry

- Nov 2015 Master SN curve approach developed by me during my PhD has been implemented in industrial software LMS VirtualLab.Durability part of Siemens Industry Software(SiSW) in software release in Nov'15

6. Publications

- Theses: 3
- Book: 1
- Book chapters: 2
- Papers in Scopus listed journals: 44
- Papers in conference proceedings: 28

7. Teaching and Mentorship

Courses Taught - IITKgp

- Mechanics Spring 2017, 2018, Autumn 2019, 2020, 2021, 2022, 2023, 2024
- Manufacturing and characterization of polymer composites Spring 2017
- Mechanics of solids Autumn 2017, 2019
- Mechanics of solids Lab Autumn 2017, 2022, 2023, 2024
- Mechanics of composites Spring 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
- Mechatronics Lab Spring 2021, 2022, 2023, 2024
- Seminar Spring 2017

Thesis supervision

- PhD 4 (solo-supervision) completed + 3 ongoing
- Master Thesis**/#/\$ 33 (solo)+10 (co-supervised) completed + 3 ongoing
- Bachelor Thesis* 23 completed
- MS by research 1 (co-supervised) completed

* One student awarded the Best Bachelor Thesis Project Award at IIT Kharagpur in 2018, 2022 and 2023

** One student awarded the Best Master Thesis Award at IIT Kharagpur in 2018

One student awarded the Best Master Thesis Award at University of Edinburgh in 2019

§ Two students awarded the Silver medal for best M. Tech. Student, 2021