



CONTACT

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PROFESSIONAL CREDENTIALS

- Chartered Engineer (C.Eng.)
- Certified Assessor – ETDP SETA
- Editorial Board Member & Peer Reviewer
- Invited Keynote Speaker & Session Chair
- Member – International Engineering & Energy Societies

Research & Strategic Focus Areas

- Computational modelling and simulation of physical and engineering systems
- Artificial intelligence and machine learning for scientific discovery and engineering applications
- Multiphysics modelling, numerical simulation, and computational optimisation
- Sustainable energy systems, thermal sciences, and energy conversion technologies
- Advanced materials design, characterisation, and structure–property relationships
- Intelligent sensor systems, optical and plasmonic sensing, and data-driven signal analysis
- Computational methods for interdisciplinary physical sciences and engineering
- Digital engineering, scientific computing, and AI-enabled modelling for emerging technologies

ACADEMIC IMPACT



- 80+ peer-reviewed journal publications in computational engineering, sustainable energy, advanced materials, and AI-enabled engineering
- 50+ international conference papers
- 15+ scholarly book chapters
- 6 authored and edited books with international academic publishers
- 18+ patents in engineering design and materials innovation
- Active member of 14+ international engineering and scientific societies

Prof. Abhishek Agarwal, Ph.D.

Chartered Engineer and Professor with an international academic and research career spanning Europe, Asia, Sub-Saharan Africa, and the United States. Expertise encompasses computational modelling, artificial intelligence and machine learning for engineering applications, multiphysics simulation, sustainable energy systems, sensor technologies, and advanced materials optimisation. Editorial leadership includes appointments with Springer Nature, Nature Portfolio, and other international scholarly journals. Active contributor to internationally funded interdisciplinary research initiatives and global scientific collaborations. Recipient of the Vice Chancellor's Teaching Excellence Award in recognition of excellence in teaching, research, and academic leadership.



EDUCATION

Internationally Accredited SAQA, BQA, MIE, UK NARIC

PhD Engineering – South Africa
(Design, Materials & Sustainable Transport Systems)

PhD Mechanical Engineering – India
(Energy Systems & Renewable Optimization)

M.A. Education (First Class)

M.Tech Thermal Engineering (First Class, Hons.)

MBA – Marketing Management (First Class)

B.Tech Mechanical Engineering (First Class, Hons.)

◆ Leadership & Academic Appointments

Professor- Energy and Combustion Process

Tallinn University of Technology (Taltech), Estonia

Consultant – His Majesty's Secretariat, Bhutan

- Advised on national higher-education strategy and technical capacity development under royal mandate
- Contributed to engineering education reform, institutional strengthening, and skills policy alignment

Prior Academic & leadership Roles:

Professor & Dean – Mechanical Engineering

College of Science & Technology, Royal University of Bhutan

- Established and operationalised a new Mechanical Engineering faculty aligned with renewable energy and sustainable infrastructure priorities
- Designed outcome-based undergraduate and graduate programs aligned with international accreditation frameworks
- Directed laboratory and workshop infrastructure initiatives strengthening applied engineering capacity and green skills integration.
- Built structured industry partnerships supporting workforce readiness, technology transfer, and employability

• Vermont State University, USA

• University of Botswana, Botswana

• India – Various Institutions

◆ Editorial Leadership

- Editorial Board Member, Scientific Reports (Nature Portfolio)
- Editorial Board Member, Discover Vehicles (Springer Nature)
- Editor-in-Chief, Recent Research in Science and Technology
- Editorial Board Member Processes, MDPI
- Lead Editor, Frontiers in Sustainable Food Systems
- Guest Editor, Additive Manufacturing of Materials
- Editorial Board Member, Revue des Composites et des Matériaux Avancés
- SSRG International Journal of Mechanical Engineering
- Research Journal of Mechanical Engineering (RJOME)
- Medicon Engineering Themes
- Reviewer for leading international journals published by Springer Nature, Elsevier, Wiley, Taylor & Francis, MDPI and other international publishers.