

Abhijit Mondal

+91 99000 64403 ♦ abhijitmondal2006@gmail.com

PRODUCT DEVELOPMENT / RESEARCH AND DEVELOPMENT – Product Commercialization and Regulatory Certification

Innovative and results-driven professional with 16+ years of a robust background in Technical Textile, Safety Product Development and Research and Development (R&D), specializing in Product Commercialization and Regulatory Certification.

- Proven track record of successfully bringing new products from concept to commercialization while ensuring compliance with regulatory requirements.
- Skilled in identifying product opportunities, and developing strategic plans to meet customer needs.
- Proficient in managing cross-functional teams, coordinating lab setup, regulatory audit and compliance, and ensuring smooth product commercialization processes.
- Strong analytical and problem-solving abilities combined with effective communication skills to collaborate with stakeholders at all levels.

CORE COMPETENCIES

- Product Development Lifecycle
- Product Regulations and Standards
- Product Testing and Validation
- Quality Assurance Principles and Processes
- Stakeholder Management

- Product Commercialization Strategies
- Technical Textile Knowhow
- Various Polymer and Material Science Knowledge
- Product Development

- Commercialization and Project Management
- Regulatory Standards Knowledge
- Documentation and Reporting
- Cross-functional Team Management

SOFTWARE SKILLS

MS Office | Datacolor CCM | Textile CAD | Systat10 | Data color Autolab | Logic-art | Arel APC controller | SAP & CRM |

CAREER

Bisonlife India Pvt. Ltd. ♦ Oct 2023 – Present

Chief Technical Officer (Global role)

- Successfully commercialized various occupational health and safety products and secured various regulatory approvals.
- conceptualizing and commercializing the product, manufacturing setup, trial and product qualification, lab setup and securing regulatory approval.
- Lead the product development, regulatory and commercialization process to develop hardhat, hearing, respiratory, fall protection etc.
- Business development and participation in various forum

3M India Ltd. ♦ Jun 2011 – Sept 2023

Sr Technical Manager (Personal Safety Division)

- Sustained USD 6Mn business and created new opportunities through arranging lab setup and testing as per regulatory amendment, and altering product design to qualify.
 - Developed a disposable respirator and commercialized BIS P2 level respirator to gain momentum to save lives during the pandemic in 2020.
- Execute new lab setup, product certification and regularity compliance.
 - Deliver technical support to the sales team to augment market share, business development, troubleshoot, handle customer complaints, and organize seminars and awareness programs.

MKU Pvt. Ltd. (100% EOU unit) ♦ Jul 2009 – Jun 2011

Technical Manager

- Drove personal protection product design and development, R&D on bullet, stab and blast resistance products, Armor product testing and test results analysis, testing facility development, troubleshooting, product certification, international customer care and business development.

MAHLE Filter Systems India ♦ Dec 2007 – Jun 2009

Assistant Manager (Research & Development)

- Handled industrial projects including, application of electrospun nanofibre as Automotive Air, Fuel & Oil filter media, Commercial nanofibre production setup development, Filter for Bio-Diesel, Double layer high efficiency & DHC air filter media development, four-layer high efficiency & DHC fuel filter media development, Validation of offline & online particle counters, and Development of melt blown nonwoven pilot line.
- Testing exposure: Media testing (Tensile, Air permeability, Max. pore & Mean pore, Burst strength), Polymer characterization (DSC, FTIR, MFI, XRD, Viscosity, AFM, SEM), Filter testing (Particulate efficiency, DHC)

Vardhman Textile Ltd. ♦ Jul 2006 – Nov 2007

Process & Product Development

- Piloted process and product development, Q.C in textile processing, customer complaint analysis and support.
- Core team member for ISO 14001 & OHSAS 18001 certification.
- Steered industrial projects like:
 - Process development of natural antimicrobial bamboo fiber processing.
 - Mercerization process optimization.
 - Water consumption reduction in Fong's package dyeing machine.

PATENTS

- "Fragment resistance structure" Application No. 44\DEL\2011
- "Ballistic resistance flexible structure" Application No. 376\DEL\2011
- "Development of multi-layered media setup having nanofiber for mass production and the process of generating thereof"; Application No. 1141\DEL\2009
- "Application of Polyacrylonitrile (PAN) polymeric nanofibers deposited on filtration media in automotive filters and the process of preparing thereof"; Patent No.: 289594
- "Formation of droplet free PAN nanofibers on filtration media using different spinnerets and the process of generating thereof"; Patent No.: 293625

PAPERS/PUBLICATIONS

- Electrospun Self-assembled Nanofiber Yarns, Abhijit Mondal, Ritutapan Borha, Avishek Mukherjee, Sandip Basu Manjeet Jassal, Ashwini K. Agrawal, Journal of Applied Polymer Science, Vol. 110, 603-607 (2008).
- Electrospun Self-assembled Nanofiber Yarns, Manjeet Jassal, Ashwini K. Agrawal, Abhijit Mondal, Ritutapan Borha, Avishek Mukherjee, Sandip Basu, Nano for 3rd Millenium- nano for life,17-18th Oct.2007, Prague
- Poster presentation and Paper "Continuous yarn from polymeric nanofibres by electrospinning" published in the book of papers of "International conference nanoscience and technology" March 2006 Delhi, which has been appreciated among 375 papers by honorable president Dr. A.P.J. Kalam. (<http://presidentofindia.nic.in/scripts/sllatest1.jsp?id=745>)
- Poster presentation and paper "Nonwoven nanostructure formation using electrospinning" published in the book of papers of the seminar on "Nonwovens technology, products & market potential" Oct. 2005 IIT Delhi.
- Paper "Electrospun nanofibres" published in the book of papers of the seminar on "Nanotechnology opportunity in textile" Sept. 2005, IIT Delhi.

EDUCATION

M.Tech. – Fibre Science & Technology | Indian Institute of Technology Delhi | 2006

B.Tech. – Textile | University of Calcutta | 2004