

Curriculum Vitae

Dr. Atul Prakash Johari

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Objective:

To work in a performance related growth environment with continuous self development opportunities where I can apply my knowledge and skills and contribute towards organizational objectives.

Key Skills:

- Leadership
- Communication
- Ability to work under pressure
- Decision Making
- Time Management
- Self – motivation
- Adaptability

Hands on Experience:

- Differential Scanning Calorimetry
- Thermogravimetric Analysis
- UTM – Tensile, flexural and peel strength etc.
- Fourier transform infrared spectroscopy (FT-IR)
- X- ray diffraction
- Twin screw extruder
- Viscometers – Viscosity testing
- Duke Tester
- UV Curing Machine
- Lloyd Scuff Tester
- MEK Test
- Page Pull Test
- MFFT
- Antiwear test

Job Experience:

1. **“Assistant Manger – R & D” (Polymer & Rubber) (25th June 2018 - till date)**
Hamilton Housewares (P) Ltd, Mumbai, 400067, Maharastra.
Reporting: Mr. Rajesh Gandhi (Senior Vice President)

Job Responsibilities:

- Research and development of polymer and rubber formulations.
- Development of new products as per market demand by following **certifications and regulations (US, UK FDA, REACH and RoHS) to sell them throughout world & especially for European market.**
- Reformulate / develop cost competitive product/improvement via compounding to existing formulations.
- Works with customer for new product trials.
- Evaluation and finalization of new vendor’s raw material.
- New testing equipments arrangement for centralized testing laboratory development.

Projects undertaking:

1. Development of Glycols - polyol based (vegetable and synthetic lubricants base) preblend for polyurethane preparation in thermoware applications.

2. Alteration of rheological performance of different brittle polymeric materials to improve the flow and viscosity inside barrel for the improvement of impact strength i.e styrenics with the incorporation of internal lubricants, different elastomeric products into them for the application of different transparent houseware body and pen barrel parts.
3. Development of novel thermochromic effect material based on dynamically cured PP/EPDM rubber for pen grip application.
4. Development of different rubbers SBS, SIS, SEBS (TPS), SEBS, EPDM, PPCP (TPO), natural isoprene (latex), butadiene based thermoplastic elastomers (TPE), thermoplastic PP/EPDM cured rubbers (TPV) and nitrile, silicone rubbers (mechanical and physical properties ie. Tensile, impact strength, elongation, hardness, density, compression set, resilience etc) etc.
5. Application development for the rubber products;
 - (a) Castor wheel – Nylon bondable grades
 - (b) Writing pen – PC and PP bondable grades
 - (c) Kitchenwares – ABS bondable grades
 - (d) Waterbottles – PET bondable grades etc.
6. Development of medical grade nitrile rubber products.
7. Development of injection moldable transparent, high impact strength, excellent flame retardent Nylon (6/6,6) compound for battery box applications.
8. Development of bio based high thermal, hot oils resistant Nylon (6/4,6 & 6/4,10) for turner handle, spatula, bakeware, nut cracker applications.
9. Development of Nylon 4,6 based ultraflow, lower cycle time (40% reduction) material for thin walled products ie garlic press applications.
10. Development of Nylon based compound for contractible electric flask handle, castor wheel, side lock of lunch box, belt clip, ready tap piston of water for water jug etc applications.

2. **“Research Scientist – R & D” (1st August 2016 – 20th June 2018)**
 Prayag Polytech (P) Ltd, Bhiwadi, 301019, Rajasthan.
Reporting: Mr. R. K. Agrawal (CMD)

Projects undertaken:

1. Development of novel thermal conductive Nylon 6 based material to replace metal part from the LEDs lighting holders for cost savings.
2. Development of mar/scuff resistance material for the polyester (Nylon 6 based) materials. Applications for casings / covers, tow bar electrical outlets, internal housings or bezels applications.
3. Sustainable development of the high performance, fuel efficient compounded materials for the application of different interior and exterior automobile body parts.
4. Development of water repellent (lotus effect – silicone rubber based), high gloss materials for the automobile, injection moldable goods applications.
5. Development of different mechanical, chemical purge compounds.

6. Development of modified Nylon 6,10 & Nylon 6,6 to increase high self ignition temperature for air intake manifold for vehicles applications and a replacement of metals due to its good chemical resistance behaviour.

3. “Senior Research Fellow” (1st December 2011 – 16th July 2016)

Laboratory for Advanced Research in Polymeric Materials, a R & D wing of Central Institute of Plastics Engineering and Technology, Bhubaneswar, 751024, Odisha, India.

Reporting: Dr. Ms. Smita Mohanty (Senior Scientist)

Project done:

- (a) Development of Hierarchical Cellulose Fibre Reinforced PLA Biocomposites Evaluation and Characterization granted from department of chemicals and petrochemicals, Govt. of India.
- (b) Influence of Monomers on the performance properties of aromatic and aliphatic Epoxy acrylates resin by UV curing methods.
- (c) Development of ash-less antiwear, extreme pressure (EP) low friction lubricants for crankcase application.

4. “R & D Executive” (November 2010 – November 2011)

Chemline India Ltd, Sonipat, 131039, Haryana.

Reporting: Dr. Ravindra Goel (CMD)

Projects undertaken:

- ✓ Different hot melt adhesives/ adhesives ie. Carton sealing, beverage bottles, shoe sole applications etc and zero residue PU adhesives for film to film adhesion.
- ✓ Development of new product and modification in existing product according to customer requirements.
- ✓ Cost reduction in existing product.
- ✓ To develop new product from lab to minimum three plant batches.
- ✓ To develop more efficient products available in the market.
- ✓ Development of Hot melt Adhesives (SIS, SBS, SEBS, TPOs based rubber based); all type of pressure sensitive adhesives, book binding adhesives, carton sealing adhesives, auto filter adhesives, non-oven adhesives, removable hot melt pressure sensitive adhesives, defreeze hot melt pressure sensitive adhesives, PET labeling adhesives, film coating adhesives, soap wrapper adhesives, PP bag side sealing, shoes fabric lamination.
- ✓ Development of Emulsion Polymerization.
- ✓ Developments of UV varnish coatings.
- ✓ Customer visit & complaints handling.
- ✓ Optimization of new raw materials from different vendors to commercialize new products.
- ✓ Documentations as per ISO-9001.

5. Analyst “C” (March 2007 - October 2008)

Shriram Institute for Industrial Research (SRI), 19, University Road, Delhi, 110007, India.

Reporting: Dr. D. S. Mehra (Scientist)

Project done: Development of High Gloss, scratch filling automotive coating.

Publications:

1. Atul P Johari, Smita Mohanty, Surendra K Kurmvanshi, Sanjay K Nayak “Influence of different treated cellulose fibers on the mechanical and thermal properties of poly (lactic acid)”. **Published in ACS - Sustainable Chemistry and Engineering. 4, 2016, 1619 –1629.**
2. Atul P Johari, S K Kurmvanshi, S Mohanty, S K Nayak “Influence of surface modified cellulose microfibrils on the improved mechanical properties of poly (lactic acid)”. **Published in Elsevier - International Journal of Biological Macromolecules 84, 2016, 329–339.**
3. Atul P Johari, Smita Mohanty, Sanjay K Nayak “Cellulose microfibrils from Natural fiber reinforced biocomposites and its applications” – a book chapter. **Published in Biodegradable and Biobased Polymers for Environmental and Biomedical Applications, (55–96) © 2016 Wiley - Scrivener Publishing LLC.**
4. Atul Prakash Johari, Devendra Jain, Rakesh Kumar Singh “Development of Polyester / Polyethylene Post Consumer Scrap Alloy”. **Published in International Journal of Scientific and Engineering Research 3, 2012, 518-526.**
5. Atul P. Johari, D. S. Mehra, Ajay Tyagi, U. K. Niyogi, R. K. Khandal “Preparation of High Gloss Coating for Automotive Applications”. **Published in International Journal of Engineering and Science Students, 2, 2010, 48-55.**
6. Atul Prakash Johari, Smita Mohanty, Sanjay Kumar Nayak “Aminosilane functionalized nanocellulose reinforced Poly (lactic acid) (PLA) biocomposites”. **Accepted in Journal of Minerals and Materials Characterization and Engineering.**

Professional qualification:

- **Ph.D. (Polymer Science & Technology)** from Central Institute of Plastics Engineering and Technology (CIPET), Bhubaneswar, Odisha affiliated to Utkal University, Vani Vihar, Bhubaneswar, Odisha, India (2012-2016).
- **M. Tech. (Plastic Technology)** with aggregate 81% marks, from Central Institute of Plastics Engineering and Technology, Hajipur, Bihar affiliated to Dr. B.R.A. Bihar University, Muzaffarpur, Bihar, India. (2008-2010).

Project done: Development of polyester/polyolefin post consumer scrap alloy.

- **M.Sc. (Polymer Science)** from Department of Polymer Science with aggregate 75% marks, from Bundelkhand University Campus, Jhansi, U.P., India. (2005-2007).

Project done: Mechanical Behavior of Glass fibre reinforced Polycarbonate Composite materials.

- **B.Sc. (Industrial Chemistry)** with aggregate 72 % marks from Dr. B.R.A. University, Agra.(2003-05)
- 10+2(Science gp.) with 63 % marks from U.P.Board, Allahabad, in the year 2002.
- 10th (Science gp.) with 54 % marks from U.P. Board, Allahabad, in the year 2000.

Computer Proficiency:

- Operating computer on windows 98/2000/XP environment.
- MS-Office
- AutoCAD, Origin 8.0, Adobe photoshop etc.
- Internet surfing, literature search, etc.

Personal details:

DOB : 17 July, 1985
Marital Status : Married
Father's Name : Mr. Suresh Chandra Saxena
Nationality : Indian
Passport : Available and valid
Notice Period : 90 days
Current Salary Package : 10 Lac
Salary Package Expectations : Hike as per Industry norms
Address (Permanent) : Atul Prakash Johari S/O Mr. Suresh Chandra Saxena
2672, Madhopuri, Nadrai Gate, Kasganj, 207123, U. P.

I hereby certify that the information furnished above is true to the best of my knowledge and in the event of any information furnished above is found to be false or it is found that I have suppressed/concealed any material/information, my candidature is liable to be cancelled and government may take such other action as it may deem fit.

Date: 16th June 2020

Place: Mumbai, Maharastra

(Atul Prakash Johari)