

Bio-data

Name: **Manjunath R N**

Designation: **Scientist- B**

Present Office Address:

Central Muga Eri Research & Training Institute
Central Silk Board
Ministry of Textiles: Govt. of India
Lahdoigarh, Jorhat-785 700, Assam, INDIA
Website: www.cmerti.res.in



Email ID: manjunath.19.n@gmail.com

Mobile No.: 09599152138

Educational Qualification:

Doctors, Textile Technology Indian Institute of Technology, Delhi	Thesis submitted
Masters, Technical Textiles DKTE's Textile & Engineering Institute, Ichalkaranji Shivaji University, Kolhapur	Graduated, 2014
Bachelors, Textile Technology Govt. SKSJTI, Bangalore Visvesvaraya Technological University, Belgaum	Graduated, 2012

Area of research interest/working area:

3D weaving, Composites, 3D bio-printing, Textile Technology

Awards/honour/Fellowship (if any):

2015 - 2016 Junior Research Fellow (Indian Institute of Technology, under DRDO, GoI)

2017 - 2018 Senior Research Fellow (Indian Institute of Technology, under MHRD, GoI)

Major/ongoing Projects:

- Design and Development of 3D woven complex hollow structures and their composites, Indian Institute of Technology Delhi.

Patents:

- Three-dimensional integrated weaving of wind blade composite, Indian Patent application No: 201911000191, Date of filing: 02 January, 2019

Important Journal Publications:

- Manjunath, R. N., Behera, B. K., & Mawkhlieng, U. (2018). Flexural stability analysis of composite panels reinforced with stiffener integral woven preforms. *The Journal of The Textile Institute*, 1-10.
- Manjunath R N. (2018) “Efficacy of Silk Fibroin Based Bio-Ink in 3D Printing for Tissue Engineering” *Trends in Textile Engineering & Fashion Technology*, 3 (3).
- Manjunath R N & Behera B K (2017), Modeling the internal geometry of the unit cell of woven fabrics with integrated stiffener sections, *The Journal of textile Institute*, 108, 11, pp. 2006-2012.
- Manjunath, R. N., & Behera, B. K. (2018). Emerging Trends in Three-Dimensional Woven Preforms for Composite Reinforcements. *Advanced Textile Engineering Materials*, 463-497.

Papers published in proceedings:

- Mechanical performance of high energy absorbent 3D woven hollow structures, Eight World Conference on 3D fabrics and their applications, University of Manchester, United Kingdom on 27th-29th March 2018.
- Design & Development of 3D woven spacer fabrics with complex profiles for high performance sandwich structures, 44th Indo-Japan Textile Research Symposium, held at IIT Delhi on 14th – 16th December, 2016.
- Stability analysis of 3D woven composite panels with integrated stiffeners, International Conference on Advances in Functional, Smart and Innovative Textiles, PSG IAS Coimbatore on 10th – 12th December 2015.
- Oral presentation titled, “Moisture Transportation in Air-Jet Textured yarns and their knitted fabrics”, International Conference on Emerging trends in traditional and Technical Textiles, NIT Jalandhar on 11th – 12th April 2014.
- Oral Presentation titled, “Wound Care Materials”, MEDITEX International Conference 2014, SITRA, Coimbatore.

Additional Information:

- Reviewer: Journal of Industrial textiles, SAGE Publications