

## Brief Bio-data

1. Name: Guguloth Suresh

2. Date of Birth: 12/05/1990

3. Current Position and Address (Include Email ID and Contact Number): Technical Officer

Add: Room no.102,

Bhagwant Singh Building,

CSIR-CIMFR, Barwa Road,

Dhanbad – 826001.

**E-Mail ID:** [g.sureshifs@gmail.com](mailto:g.sureshifs@gmail.com); gsuresh@cimfr.nic.in

**Contact No:** +91- 8099585820

4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
2	B.Tech	2012	J.N.T.U, Hyderabad	Electronics, Instrumentation, Analog & Digital Electronics Engineering
3	12 <sup>th</sup> / Intermediate	2008	Board of Intermediate Education, AP	Mathematics, Physics, Chemistry
4	10 <sup>th</sup> /SSC	2006	Board of Secondary Education, AP	Mathematics, General Science

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Technical Officer	CSIR-CIMFR, Barwa Road, Dhanbad	17.01.2018	till date	Research work related to Design and Developments of Instruments, and Testing, trouble shooting, calibration etc. and maintenance of different instruments.

6. Work Area (s)/ Specialization: Electronics, Instrumentation, Internet of Things, AI etc. Design and Developments of Instruments, and Testing, trouble shooting, calibration etc, and Machine Health Monitoring, Survey and Ergonomics etc.

7. Major contributions: (Max. 100 words):

- Design and development of instruments using different techniques such as embedded system, IoT and AI.
- Machine Health Monitoring & Ergonomics
- Coal sampling and testing

8. No. of Research Publications:

- Papers in Journals: **02**  
Anand S. Sharma, S. K. Mandal, **G. Suresh**, S. Oraon and D. Kumbhakar (2019): "Whole Body Vibration Exposure and its effects on HEMM operators of Opencast Mines- A review" Published in Journal of Mines, Metals and Fuels on 05 November, 2019.  
Lakshmi Usha Sree Ramireddy, **Suresh Guguloth**, Dilip Kumbhakar , Chandra Sekhar Vasamsetty (2021): "Intelligent Device for Control of Home Appliances Using IoT" published in International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 5, May -2021
- In conference proceedings: **03**  
Abhishek Ghosh, P.K.Mishara, **G.Suresh** (2018): "Laboratory Scale Design of Multi-parameter Monitoring Module for Underground Coal Mines using UHF Transceivers". In National Seminar on Recent Challenges in Mining Industry (RCMI 2018).
- S.K. Mandal, D.Kumbhakar, **G.Suresh** and S.oraon (2019): "Vibration based condition monitoring for mining equipemts: A need of todays". in International Conference and Exhibition On Energy and Environment - Challenges and Opportunities (ENCO-2019), 20-22 February 2019, Vigyan Bhawan, New Delhi, India.
- Anand S. Sharma, S. K. Mandal, **G. Suresh**, S. Oraon and D. Kumbhakar (2019): "Assessment of exposure to vibration of Two-Wheeler Riders" in International Conference on Humanizing work & work environment (HWWE-2019), held on 8-10 November, 2019 at NIT Jalandhar, Punjab.
- Invited lectures delivered: Nil
- List of best 05 publications: Nil
- Books/Chapters authored/edited: Nil

9. List of 5 Major Contract R&D Projects:

- A Microcontroller based fully automated system for Coal Handling Plant Using Internet of Things (IoT).
- Development of continuous monitoring device to identify the sudden rock fall in railway tunnel using Internet of Things (IoT).
- Monitoring of the excavation and support efficacy for the proposed new tunnel between Ratanpur and Jamalpur.
- GAP/CIL/119/2019-20: Development and adoption of real time prognosis system (RTPS) for cast effective safe operation of mobile machinery show-cased demonstration of dumper fleet for funding by CIL R&D Board

- Scientific and Technical Services for Quality Evaluation of Coal at loading end of JAGANNATH for different Power Utilities for its optimum utilization in power generation, Phase-IX.

10. (a) Name of Patents/Copyrights applied /granted/commercialized: Nil

(b) Technologies/Products /knowhow/Services developed:

- Developed a microcotller based system for automation of coal hanadling plant using Internet of Things (IoT).

11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received: AMIE

12. Societal Contributions:

HRD & Skill Development and Jigyasa.

Conducted various program for Executives / professionals from various industries, academic and R& D organizations and Conducted training program for school students.