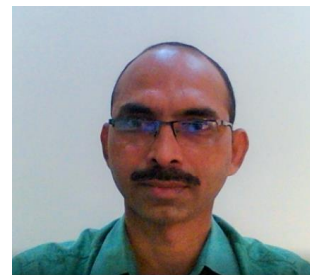


RESUME

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4. **DATE OF BIRTH** : 19 – 02 – 1978



5. EDUCATIONAL QUALIFICATIONS:

S. No.	Degree and Specialization	University/Institute	Year of Passing	% Marks obtained
1	Ph.D (Friction Stir Welding)	Anna University, Chennai	2016	-
2	M.E (Industrial Engineering)	Thiagarajar College of Engg., Anna University, Chennai	2004	7.33 (CGPA)
3	B.Tech. (Mechanical Engineering)	Vignan's Engineering College, JNTU, Hyderabad	2001	66.22
4	Intermediate	Board of Intermediate Education, Hyderabad	1995	77.10
5	SSC	SSC Board, Hyderabad	1993	61.80
OTHER QUALIFICATIONS:				
➤ Qualified in GATE-2002 with a percentile of 88.59				

Ph.D thesis title: Mechanical and Corrosion Behavior of Friction Stir Welded AA7075 Thick Plates.

6. EXPERIENCE: ~15 Years

a) **TEACHING:** ~14 Years

S. No.	Post	Institution	Joining Date	Leaving Date
1	Professor & Head	Chirala Engineering College, Chirala	04-10-2021	Till date
2	Associate Professor	ICFAI Foundation for Higher Education, Hyderabad	11-01-2019	31-03-2021

3	Post-doc. researcher	Indian Institute of Technology Madras, Chennai	16-01-2018	10-01-2019
4	Professor	KKR and KSR Institute of Technology and Sciences	02-06-2016	15-01-2018
5	Professor	ACE Engineering College, Ghatkesar, Hyderabad-500 098	02-11-2015	31-05-2016
6	Sr. Asst. Professor	Tagore Engineering College Rathinamangalam, Chennai - 127	01-09-2013	30-10-2015
7	Assistant Professor	Tagore Engineering College Rathinamangalam, Chennai – 127	08-02-2011	31-08-2013
8	Associate Professor	Universal College of Engineering and Technology, Guntur, AP	01-06-2010	03-02-2011
9	Assistant Professor	Sri Mittapalli College of Engineering, Guntur, AP	10-06-2009	12-05-2010
10	Assistant Professor	Sir CR Reddy College of Engineering, Eluru, AP	02-08-2007	09-05-2009
11	Assistant Professor	Sir CR Reddy College of Engineering, Eluru, AP	06-06-2005	07-06-2007
12	Lecturer	Trichy Engineering College, Trichy, Tamil Nadu	21-06-2004	08-11-2004

b) **RESEARCH:** ~ 10 Years (From 2011 to till date) as a Researcher on Friction stir welding of aluminum alloy thick plates and Additive manufacturing of IN 718 and Ti-Al-4V.

S. No.	Designation	Institution	Project Title & Funding Agency	Period
1	Co – Principal Investigator	FST, IFHE Hyderabad	“Recycling of waste solar panels”- (~25 Lakhs)	Proposal is being prepared
2	Principal Investigator	FST, IFHE Hyderabad	“Exploring various heat treatment cycles to restore mechanical properties of thick section AA 7075 friction stir welds”- (~ 28 Lakhs)	Proposal is being prepared
3	Post-doc researcher & Senior Project Officer	IIT Madras, Chennai	“Characterization of selective laser melted Inconel 718 and Ti-6Al-4V”-CoPT, DRDO, New Delhi (161.52704 Lakhs)	16-01-2018 to 10-01-2019
4	Co – Principal Investigator	TEC, Chennai.	“Friction stir welding of AA7075 thick plates for heavy vehicle applications” – Armament Research Board, DRDO, New Delhi (14.03 Lakhs)	13-07-2012 to 12-01-2015

7. RESEARCH PAPERS PUBLISHED / COMMUNICATED:

International Refereed Journals Published: 11 (All are SCI journals)

1. **T. Srinivasa Rao**, G. Madhusudhan Reddy, G. Srinivasa Rao and S. R. Koteswara Rao, “Studies on salt fog corrosion behavior of friction stir welded AA7075-T651 aluminum alloy”, *International Journal of Materials Research*, Vol. 105, No. 4, 2014, pp. 375-385. DOI: 10.3139/146.111033. **(Impact Factor: 0.748)**
2. **T. Srinivasa Rao**, G. Madhusudhan Reddy and S. R. Koteswara Rao, “Microstructure and mechanical properties of friction stir welded AA7075-T651 aluminum alloy thick plates”, *Transactions of Nonferrous Metals Society of China*, Vol. 25, No. 6, 2015, pp. 1770-1778. DOI: 10.1016/S1003-6326(15)63782-7. **(Impact Factor: 2.917)**
3. **T. Srinivasa Rao**, G. Madhusudhan Reddy and S. R. Koteswara Rao, “Studies on variations in microstructure and hardness of AA7075–T651 aluminum alloy friction stir welds”, *Metallurgia Italiana*. Vol. 108, No. 1, 2016, pp. 29–35. **(Impact Factor: 0.539)**
4. Kollapuri Thamilarasan, Sadayan Rajendraboopathy, Gankidi Madhusudhan Reddy, **Tadivaka Srinivasa Rao**, Sajja Rama, Koteswara Rao, “Salt fog corrosion behaviour of friction stir welded AA2014–T651 aluminum alloy”, *Materials Testing*. Vol. 58, No. 11-12, 2016, pp. 932-938. **(Impact Factor: 1.589)**
5. **Tadivaka Srinivasa Rao**, Gankidi Madhusudhan Reddy and Sajja Rama Koteswara Rao, “Investigation on variations in hardness and microstructure of in-process cooled 7075 aluminum alloy friction stir welds”, *Materials Testing*. Vol. 59, No. 2, 2017, pp. 155-160. **(Impact Factor: 1.589)**
6. **T. Srinivasa Rao**, S. R. Koteswara Rao, and G. Madhusudhan Reddy, “Friction stir welding of thick section Al-Zn-Mg-Cu aluminum alloy”, *Materials Science and Engineering Technology*. Vol. 49, No. 7, 2018, pp. 851-858. **(Impact Factor: 0.854)**
7. **T. Srinivasa Rao**, S. R. Koteswara Rao, and G. Madhusudhan Reddy, “Microstructure and fracturing behavior of AA7075–T651 aluminum alloy cooled during friction stir welding”, *Metal Science and Heat Treatment*. Vol. 61, No. 5-6, 2019, pp. 379-386. **(Impact Factor: 0.757)**
8. Neelamegam Vasudevan, Govindasamy Bhavani Bhaskar, **Tadivaka Srinivasa Rao** and Muthukrishnan Mohandass, “Mechanical properties of cryogenically treated AA5083 friction stir welds”, *Materials Testing*. Vol. 61, No. 12, 2019, pp. 1129-1134. **(Impact Factor: 1.589)**
9. Veerababu Gollapalli, **Srinivasa Rao Tadivaka**, Chenna Rao Borra, Suguna Soumya Varanasi, Phani S. Karamched, and M.B.Venkata Rao, “Investigation on stabilization of ladle furnace slag with different additives”, *Journal of Sustainable Metallurgy*. Vol. 6, No. 1, 2020, pp. 121-131. **(Impact Factor: 2.347)**
10. Neelamegam Vasudevan, Govindasamy Bhavani Bhaskar, Muthukrishnan Mohandass and **Tadivaka Srinivasa Rao** “Investigation on corrosion behavior of cryogenically treated friction stir welded AA5083”, *Mechanika*. Vol. 26, No. 5, 2020, pp. 442-449. **(Impact Factor: 0.597)**

11. **Srinivasa Rao Tadvika**, M. Selvraj, S. R. Koteswara Rao, and T. Ramakrishna, “Thermal cycles and their effects during friction stir welding of AA7075 thicker plates with and without in-process cooling”, *Materials Science and Engineering Technology*. Vol. 52, No. 3, 2021, pp. 308-319. (**Impact Factor: 0.854**)

Research papers in manuscript preparation: 05 (Planned to communicate to SCI journals)

12. Chenna Rao Borra, **Srinivasa Rao Tadvika**, Y. Rama Murthy, “Effect of chemical and mechanical activation on carbothermic reduction of pyrolusite”, *Transactions of the Indian Institute of Metals*. Manuscript is being prepared.
13. **T. Srinivasa Rao**, S. R. Koteswara Rao and M. Shilpa, “Optimization of process parameters for friction stir welding of AA7075”, *Materials Science and Engineering Technology*. To be communicated.
14. T. Ramakrishna, S. R. Koteswara Rao, S. Srinivasa Rao, G. Swami Naidu and **T. Srinivasa Rao**, “Corrosion behavior of post-weld heat treated friction stir welded AA7075 plates”, *Arabian Journal for Science and Engineering*. Manuscript is being prepared.
15. G. Srinivasa Rao, S.R. Koteswara Rao, **T. Srinivasa Rao**, K. Srinivasa Rao, “Pitting and stress corrosion behavior of AA2219-T87 friction stir welds”. To be communicated.
16. **T. Srinivasa Rao**, S. R. Koteswara Rao, and T. Ramakrishna, “Influence of water cooling on mechanical behavior and microstructure of friction stir welded AA7075–T651 aluminum alloy”. Manuscript is being prepared.

International / National Conferences: 13

1. **T. Srinivasa Rao**, S. Baskaran, N. Jawahar: “Assessment of quality of human resource with emotional intelligence quotient”, Proceedings of *National Conference on Challenges in Achieving Global Quality, CAGQ 2004*, May 24-25th, 2004, Madurai, India.
2. **T. Srinivasa Rao**, G. Madhusudhan Reddy, G. Srinivasa Rao, A. Alfred Vasi Raja, P. Kumara Swamy, S.R. Koteswara Rao: “Investigating corrosion behavior of friction stir welded AA 7075-T651 aluminum alloy under salt fog environment”, Proceedings of *International Conference on Engineering Materials and Processess, ICEMAP 2013*, May 23- 24th, 2013, Chennai, India.
3. G. Srinivasa Rao, V.V. Subba Rao, G. Madhusudhan Reddy, **T. Srinivasa Rao**, K. Girish, S.R. Koteswara Rao: “Effect of pH on corrosion behavior of AFNOR 7020-T6 aluminum alloy friction stir welds”, Proceedings of *International Conference on Engineering Materials and Processess, ICEMAP 2013*, May 23- 24th, 2013, Chennai, India.

4. G. Srinivasa Rao, V.V. Subba Rao, G. Madhusudhan Reddy, **T. Srinivasa Rao**, P. Kumara Swamy, A. Alfred Vasi Raja, S.R. Koteswara Rao: “AA2219-T87 aluminum alloy in salt fog environment”, Proceedings of *International Conference on Engineering Materials and Processes, ICEMAP 2013*, May 23- 24th , 2013, Chennai, India.
5. S.J. Samuel Justin, **T. Srinivasa Rao**, S.R. Koteswara Rao: “Corrosion behavior of micro arc oxidation coated AA7075-T651 friction stir welds”, Proceedings of *National Conference on Recent Advances in Science, Engineering and Management, NCRASEM 2015*, 20th March, 2015, Chennai, India.
6. **T. Srinivasa Rao**, S.R. Koteswara Rao, G. Raja Kumar: “Microstructure and mechanical behavior of AA7075–T651 aluminum alloy friction stir welds”, Proceedings of *International Conference on Contemporary Engineering and Technology, ICCET 2017*, March 31- 1 April 2017, Vijayawada , India.
7. G. Raja Kumar, S.R. Koteswara Rao, **T. Srinivasa Rao**: “Effect of nitrogen addition on borated stainless steel (304B) GTA welds”, Proceedings of the 7th *International Conference on Advances in Science, Engineering and Technology, ICASET 2017*, 24th April 2017, Bengaluru , India.
8. T. Ramakrishna, S. Srinivasa Rao, G. Swami Naidu, S.R. Koteswara Rao, **T. Srinivasa Rao**: “Effect of post weld heat treatments on mechanical behavior of friction stir welded thick section 7075 aluminum alloy”, Proceedings of *Young Professional International Conference (YPIC) 2017* conducted by IIW during 07 to 09 December 2017 at Chennai Trade Centre, Chennai.
9. **T. Srinivasa Rao**, G.D. Janaki Ram, R. Anbazhagan, B.K. Nagesha, Jivan Kumar: “Microstructural characterization of selective laser melted Inconel 718”, Proceedings of *International Conference on Advanced Materials and Manufacturing Processes for Strategic Sectors (ICAMPS 2018)* organized by Indian Institute of Metal (Trivandrum Chapter) during 25 to 27 October 2018, Thiruvananthapuram, Kerala.
10. T. Ramakrishna, **T. Srinivasa Rao**, S.R. Koteswara Rao, S. Srinivasa Rao, G. Swami Naidu: “Corrosion behavior of post-weld heat treated friction stir welds of AA7075-T651”, Proceedings of *Tribology Research Symposium (ITRS 2020)* conducted by SRM IST in collaboration with SMVDU during 05 to 07 November 2020, Chennai.
11. N. Vasudevan, **T. Srinivasa Rao**, G.B. Bhaskar, T. Ramakrishna: “Studies on wear behavior of AA5083 friction stir welds with and without cryogenic treatment”, Proceedings of *Tribology Research Symposium (ITRS 2020)* conducted by SRM IST in collaboration with SMVDU during 05 to 07 November 2020, Chennai.
12. T. Ramakrishna, Dama Shree Phani Teja, S.R. Koteswara Rao **T. Srinivasa Rao**, S. Srinivasa Rao, G. Swami Naidu: “Corrosion properties of cyclic solution treated AA7075 thick friction stir welds”, Proceedings of *International Conference on Advances in Materials and Manufacturing (ICAMM 2021)* conducted by SSN College of Engineering, Chennai on 18th and 19th, February 2021, Chennai.
13. V. Kiran Kumar, Sk. Abdul Munaf, S.R. Koteswara Rao, **T. Srinivasa Rao**: “Microstructure and mechanical properties of double-side friction stir welded AA7075-

T651”, Proceedings of 2nd Virtual International Tribology Research Symposium (ITRS 2021) conducted by SRM IST in collaboration with SMVDU during 08 to 10 December 2021, Chennai.

8. WORKSHOPS / COURSES ATTENDED: 14

1. National Workshop on “**Applications of Optimization Techniques in Industrial Engineering-OPTECH 05**”. Organized by Department of Industrial and Production Engineering, Koneru Lakshmaiah College of Engineering, on 10th December 2005.
2. National Workshop on “**Soft Skills-FUSION**”. Conducted by Department of Training and Placements and Industry Relations in association with Tata Consultancy Services, Hewlett Packard, and Andhra Bank at Sir CRR College of Engineering, Eluru, during 15- 17th November 2007.
3. Workshop on “**Composite Materials: Fundamentals, Design and Applications**” organized by Department of Mechanical Engineering, National Institute of Technology, Warangal, during 29- 30th November 2007.
4. National workshop on “**Mechatronics**” organized by Department Mechanical Engineering, V.R. Siddhartha Engineering College, Vijayawada in association with The Institute of Engineers (India) and Cyber motion Technologies Pvt. Ltd, Hyderabad, on 22nd August 2008.
5. National workshop on “**Composites and Nano materials**” conducted by Department Mechanical Engineering, Sir CRR College of Engineering, Eluru, during 11-12th March 2009.
6. A Two Day Course on “**Welding Technology, Metallurgy and Quality assurance (WTMQ-2012)**” conducted by The Indian Institute of Welding, Chennai at Hotel Radha regent, Chennai, during 4-5th May 2012.
7. Workshop on “**Recent Trends in Manufacturing Processes- RTMP 2012**” organized by Department of Mechanical Engineering, Tagore Engineering College, Chennai in association with Tamil Nadu State Council for Science and Technology, Chennai and National Council for Science and Technology Communication, New Delhi, during 7-8th August 2012.
8. National Workshop on “**Welding Research Today: Challenges and Opportunities (WRT-2012)**” conducted by The Indian Institute of Welding, Chennai in association with Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai, during 23-24th November 2012.
9. A Three Day Course on “**Welding of Steels and Stainless Steels**” conducted by The Indian Institute of Welding, Chennai in association with Mohamed Sathak A.J. College of Engineering, Chennai, during 21-23rd March 2013.

10. NRB Research Dissemination Workshop on “**Titanium Matrix Composites**” conducted by Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai at IC & SR Auditorium, IIT Madras, on 30th August 2013.
11. A Two Day Course on “**Metallurgy and Materials for Practicing Engineers and Researchers**” organized jointly by Indian Institute of Metals Chennai Chapter & Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai at IIT Madras, during 21-22nd September 2013.
12. A Two Day Workshop on “**Non-destructive Testing Techniques**” conducted by Kalva Institute of NDT & Quality Management, Hyderabad in association with KKR and KSR Institute of Technology and Sciences, Guntur, on 27th & 28th December 2016.
13. A five day course on “**Welding Metallurgy and Weldability of Non-Ferrous Alloys**” organized by Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai through Global Initiative of Academic Networks(GIAN), during 11-15th December 2017.
14. A five day course on “**3D Printing in Modern Engineering**” organized by Department of Mechanical Engineering, Faculty of Science and Technology, ICFAI Foundation for Higher Education, during 22-26th April 2019.

9. TRAINING PROGRAMS ATTENDED:

S. No	Name of the Trainer	Training Topics	Period
1	Quality Improvement Program by National Institute of Technical Teachers Training & Research (NITTTR), Chennai.	Instructional Design and Delivery: i)Teaching Learning Process ii)Learners’ Characteristics iii)Instructional objectives iv) Students’ Evaluation	12-06-06 to 17-06-06 (1 week)
2	Indian Society for Technical Education (ISTE) and Wipro Technologies.	Mission 10X	13-06-11 to 17-06-11 (1 week)

10. MEMBERSHIP IN PROFESSIONAL BODIES:

1. Life member in The Indian Institute of Welding, No.: VIZ/M/R-10879/L
2. Life member in Indian Society for Technical Education, No.: LM 112978
3. Life member in International Association of Engineers, No.: 151794

11. REVIEWER FOR THE FOLLOWING JOURNALS: All are SCI journals

1. Materials Characterization
2. Corrosion reviews
3. Material Science and Engineering Technology

4. Journal of Materials Science and Technology
5. Journal of Materials Engineering and Performance
6. Transactions of Nonferrous Metals Society of China
7. Acta Metallurgica Sinica (English Letters)
8. Materials Performance and Characterization
9. Journal of Testing and Evaluation
10. Materials Research Express

12. REFERENCES

1. Dr. S.R. Koteswara Rao
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