

SAMPREET RANGASWAMY

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OBJECTIVE AND SUMMARY

To obtain a PhD position in a well-reputed university allowing me to utilize my previous education and work experience while gaining a wider exposure. A fast learner who enjoys working in a competitive and challenging environment and has an abundance of passion towards science and technology, with a goal to achieve big in the field. An appropriate candidate for this position due to previous research experience, analyzing skills, appreciation of physical work and willingness to travel.

EDUCATIONAL QUALIFICATION

Course	Name of Institution	Year of Graduation	Class Obtained
MSc Advanced Engineering Materials	University of Manchester	2021	Distinction
B.Tech Mechanical Engineering	SRM Institute of Science and Technology	2020	Distinction
Pre-University	Deeksha Integrated	2016	Distinction

WORK EXPERIENCE

- Teaching Assistant and Cover Supervisor at Choice Teachers (Since Jan 2021)
- Warehouse Operative at JD Sports, Rochdale (Oct 2021-Jan 2022)
- Graduate Teaching Assistant at the University of Manchester (Sep 2021-Nov 2021)
- Intern at Hindustan Aeronautics Limited, Bangalore (Dec 2018-Jan 2019)

PROJECTS

- Microstructural evolution of high strength Aluminium alloys during solution treatment
- A study on metallurgical, mechanical and corrosion aspects of TIG welded Hastelloy C-276
- Optimization of parameters in laser welding of Hastelloy C-276

EXPERIMENTAL SKILLS

- Laser welding
- TIG welding
- Optical Microscopy
- SEM/FESEM
- EDS
- XRD
- Mechanical testing
- Optimization techniques

SOFTWARE SKILLS

- MS Office
- AutoCad
- SOLIDWORKS
- CATIA
- Pro-E
- Minitab
- NeuralPower
- JMatPro
- C++
- ImageJ

CONFERENCES AND WORKSHOPS

- International Conference on Mechanical and Building Sciences, SNS College of Technology, Coimbatore (March 2019)
- 2nd International Conference on Materials, Manufacturing and Modelling, Vellore Institute of Technology, Vellore (March 2019)
- International Conference on Recent Trends in Nano materials for Energy, Environmental and Engineering Applications, K. Ramakrishnana College of Technology, Tiruchirappalli (March 2019)
- Current-trends in Material Joining processes, SRM Institute of Science and Technology, Kattankulathur (October 2018)

SELECTED PUBLICATIONS IN INTERNATIONAL JOURNALS

- KR Sampreet, Vasareddy Mahidhar, Rajesh Kannan, T Deepan Bharathi Kannan, Optimization of parameters in Nd:YAG laser welding of Ti-6Al-4V using TOPSIS, Materials today: Proceedings- <https://doi.org/10.1016/j.matpr.2019.05.401>
- KR Sampreet, Vasareddy Mahidhar, T Deepan Bharathi Kannan, Optimization of process parameters in CO₂ laser welding of Hastelloy C-276, Materials today: Proceedings <https://doi.org/10.1016/j.matpr.2020.02.119>
- KR Sampreet, Vasareddy Mahidhar, R Karthic Narayanan, T Deepan Bharathi Kannan, Optimization of Process Parameters in Laser Welding of Hastelloy C-276 Using Artificial Neural Network and Genetic Algorithm, Surface Review and Letters- <https://doi.org/10.1142/S0218625X20500420>
- R Manoj Samson, Sonu Rajak, T Deepan Bharathi Kannan, KR Sampreet, Optimization of Process Parameters in Abrasive Water Jet Machining of Inconel 718, Journal of The Institution Of Engineers (India): Series C- <https://doi.org/10.1007/s40032-020-00569-4>
- Vasareddy Mahidhar, KR Sampreet, Chiguluri Shai Vinay, CB Maheswaran, T Deepan Bharathi Kannan, Effect of heat input on TIG welding of Hastelloy C-276, IOP Conference Series: Materials Science and Engineering- <https://doi.org/10.1088/1757-899X/912/3/032083>

CERTIFICATIONS

- Fundamental of Welding Science and Technology (NPTEL Online course)
- Non Traditional Abrasive Machining Processes (NPTEL Online course)

ADDITIONAL INFORMATION

- Student representative at the University of Manchester
- Environmental coordinator and Sports coordinator for Woolton Hall of Residence at the University of Manchester
- Received UoM India Scholarship of worth £5000 from the University of Manchester for master's degree
- Student Member of American Society of Mechanical Engineers (ASME) from May 2019 to January 2020
- Chairman of MVK Youth Society from July 2013 to February 2014
- Secured 12th rank in District level Mathematics Olympiad Examination 2013

EXTRA-CURRICULAR ACTIVITIES

- Music
- Travelling
- Cricket
- Volleyball
- Shot put
- Social Activism

LANGUAGES SKILLS

English (Fluent), Kannada (Fluent, Mother Tongue), Hindi (Fluent), Telugu (Intermediate), German (Basic), Tamil (Basic), Eager to learn other languages like Spanish, French and Mandarin