

Production & Manufacturing

Experienced

# Metallurgist

Chennai, India

**Motherson Health & Medical** is focused on helping people become and stay healthy by enabling access to high-quality and affordable care. As part of the Motherson family, we draw upon decades of expertise in innovation, product design, engineering, software, and supply chain. Motherson Health & Medical leverages the vast resources of the Motherson Group, which includes over 180,000 employees and more than 350 manufacturing facilities in 41 countries. This enables us to substantially impact the healthcare industry by creating access to quality and affordable healthcare worldwide.

We continuously expand our core capabilities by collaborating with universities, hospitals, research groups, startups, and healthcare companies. By staying at the forefront of scientific and technical developments, we deliver cutting-edge products to our customers.

We believe in attracting talented individuals, investing in their development, and providing equal opportunities for success. We actively recruit talent with core healthcare capabilities from diverse geographies to join our inclusive team. Together, we aim to revolutionise the healthcare industry and make quality and affordable healthcare accessible to all.

Join Motherson Health & Medical and be part of our mission to make a positive impact on global healthcare.

## What you'll do

We are seeking a skilled Metallurgist with a background in super alloy joining process, cleaning and machining to join our team. The successful candidate will be responsible for ensuring the quality and performance of our super alloy products through the development and implementation of advanced manufacturing techniques.

- Develop and implement advanced manufacturing techniques for super alloy( Kovar , Inconel, Ceramic, Nickel, TZM , Molybdenum , Zirconium etc in joining , cleaning , deep draw , stamping and machining. • Conduct research and development activities to improve existing manufacturing processes and develop new ones based on customer and process requirements. • Analyze metallurgical data to identify trends and make recommendations for process improvements. • Analyze metallurgical data to identify failures in the super alloys , deep dive and find the root cause and make recommendations quickly. • Collaborate with other departments to troubleshoot quality issues and implement corrective actions. • Monitor and control manufacturing processes to ensure product quality and consistency. • Develop and maintain process documentation and standard operating procedures in line with the customer requirements and process requirements. • Provide technical guidance and support to production personnel to put in the right capital equipment, measuring equipment and poke yoke the process to get to the desired result of the process.

## What we are looking for

Requirements: • PHD / Master's or Bachelor's degree in Metallurgy, Materials Science, or a related field. • At least 5- 10 years of experience in super alloy joining, cleaning , stamping , deep draw and machining. • Strong knowledge of metallurgical principles and processes. • Experience with advanced manufacturing techniques, such as hot isostatic pressing (HIP) and electron beam welding (EBW), Hydrogen furnace usage in joining non homogeneous materials, Brazing furnace and different kinds of Brazing including Aluminum Dip Brazing & Welding of materials. • Familiarity with statistical process control (SPC), Non destructive testing , Destructive testing methods & and other quality control methods. • Excellent problem-solving and analytical skills. • Strong communication and interpersonal skills.

Preferred Qualifications: • Master's degree or PhD in Metallurgy, Materials Science, or a related field. • Experience with super alloy powders and additive manufacturing techniques. • Familiarity with software tools such as MATLAB, ANSYS, and SolidWorks. • Familiarity with industry standards and regulations related to super alloy production. • Physical Requirements: • This position may require standing or sitting for extended periods of time, and may involve working in a manufacturing environment with exposure to high temperatures and noise levels. • We are an equal opportunity employer and value diversity at our company. We do not discriminate based on race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability status