
Job Offer – Senior Design Engineer – Special Machinery and Plant Design (Hardware)

Full-time | Dresden/Munich | Hybrid/On-site | Includes VSOP

HyJOIN is a breakthrough joining technology with the potential to transform manufacturing, design and sustainability standards. As Senior Design Engineer, you will be at the heart of turning our technology into real-world solutions — leading machine development, design of machines and plant systems, supporting customers, and contributing to our growth as an early founding team member.

Your Responsibilities

- Design and further develop new and existing hyJOIN machine systems, modules, and assemblies for thermal direct joining and laser remote surface structuring
- Create detailed designs for automated plant systems, machines, components, tooling, and mechanical interfaces in accordance with machine safety and CE compliance
- Conceptualize, evaluate, test, and implement mechanical solutions integrating mechanics, electronics, pneumatics, and automation components
- Develop and design fixtures, tooling, and customized handling solutions for automated manufacturing systems
- Integrate laser sources, scanners, optics, precision mechanical structures, sensors, and machine-vision elements into machine platforms
- Perform mechanical and thermal calculations, measurements, tests, and performance evaluations
- Drive Design-to-Cost initiatives for cost-optimized machine layouts, configurations, component specifications and sourcing
- Prepare and maintain technical documentation (specifications, interface definitions, BOMs, drawings, offers)
- Feasibility assessments of technical customer requests, requirement evaluation, and project guidance

- Coordinate development activities with suppliers and partners; review and approve drawings, parts, and deliveries
- Provide hands-on support for assembly, commissioning, troubleshooting, and optimization of prototypes and machines

Your Profile

- Degree in Mechanical Engineering, Mechatronics, Precision Engineering, or equivalent
- Min. 7 years of experience in mechanical design of special-purpose machinery and automated plant design
- Excellent CAD skills (preferably Autodesk Inventor or equivalent)
- Experience with thermal systems, induction generator design, heating devices, press tools, or laser machinery is a plus
- Strong knowledge of machine safety and CE compliance, including risk assessments (EN ISO 12100), safety control systems (ISO 13849 / IEC 62061), and safe mechanical design principles for industrial production equipment
- High level of ownership, hands-on mentality, structured working style
- Resilience, initiative, and willingness to travel occasionally

What We Offer

- A key engineering role in a high-potential industrial deep-tech company
- VSOP participation aligned with your contribution and responsibility
- Direct work with customers, partners, and our R&D team
- Ownership over critical hardware systems and machine modules
- Hybrid work environment with access to a fully equipped Tech Lab
- A motivated, execution-focused team culture