

### About Bercella:

We're an Italian Design and Manufacturing firm involved in Motorsport, Aerospace, Defence, and Railway. Our main expertise is in Composite Materials, but we manage a variety of technologies and materials to help our customers getting everything they need.

While the company is well established and active since 20 years, the people working here is <35 years old on average, and we are growing pretty rapidly!

If you are looking for a stimulating start for your career, in an organization involved in some of the most exciting industries, based in the heart of Italy's best region for Food and Living, you should look deeply into our Openings!

But if the main priorities in your life are inherent security and the ability to plan things months ahead, please stop reading this now and spend your time doing something else.

Here you'll find and we expect a sense of truthfulness (towards oneself and each other), being demanding, as well as an innate spirit of curiosity.

### The Role:

We're seeking a talented *Composites Design Engineer* to help us support our Manufacturing organization and define our future products/technologies. We expect you to have experience in both manufacturing and design.

We're looking for candidates who have proven expertise in creating well-designed composites components and/or technologies throughout their Academic career.

Want more details?

Throughout the product design lifecycle, you will:

- Work closely with our Development and Manufacturing teams to devise new approaches to resolve unusual or highly complex manufacturing problems through early, upfront design-for-manufacturing (DFM) principles to ensure producibility, inspectability, testability, maintainability and reparability
- Influence the product and process specifications to achieve the best quality, cost and cycle time
- Troubleshoot conflicting design development vs. production requirements, promotes new methods / process equipment, and evaluates special material requirements.
- Oversee prototype builds, document the build process with standardized work instructions, define and implement new manufacturing technologies
- Provide documentation and makes technical presentations as required
- Maybe represent the organization as the prime technical contact on new projects
- Provide input to design, technical staff, briefs management, and participates effectively in a team of moderately experienced professional staff

- Develop manufacturing processes, procedures and tooling using technical experience and collaborative interaction with the team to improve quality, eliminate non-value-added steps and shorten lead times
- Perform additional assignments per supervisor's direction.

#### Our Ideal Candidate has:

- A bachelor's degree, master's degree or PhD in engineering
- Demonstrated extensive technical expertise and application of engineering principles, concepts, theory, and practice with the ability to organize, plan, schedule, conduct, and coordinate workloads to meet established deadlines or milestones with some experience in project leadership.
- Knowledge of advanced composites production operations, applicable tooling conceptualization and design, competency with 3-D modeling or CAD software programs (CATIA preferred), tooling fabrication, machining operations, quality control procedures, and the ability to work extended hours as required
- A strong knowledge of the English language (TOEFL IBT>100+ or IELTS>6.5)
- Specialization in both design and manufacturing
- On the design side, you're familiar with things like:
  - What Tooling means, what a Master Model is, what a Mold is;
  - How to design a proper tooling starting from the 3D of the part;
  - Dealing with Rules and Technical Specifications;
- On the manufacturing side, you're familiar with things like:
  - Design for Composites manufacturing processes
  - Other manufacturing methods, including; CNC machining (as either primary or secondary ops process); compression molding, RTM, 3D Printing; etc.
  - Finishing techniques (painting, coatings)
  - Assembly strategies (threaded inserts, adhesives, and so forth)
- A valid permission for working in the European Union
- The ability to speak basic Italian

#### Bonus Points for:

- Formula SAE experience
- Being awesome at 3D modelling
- Being good with FEA
- Being familiar with CATIA and its CPD
- Project Management training
- A strong aptitude for Team-working and Problem Solving
- Strong communication, presentation, and interpersonal skills
- Academic or working experiences in a foreign country

Why you should work here:

- We'll trust you to do things right
- Nobody will ever tell you "because we always did so"
- You'll work with other young and talented people
- You'd be getting in a company going through a stable and organic growth