High-Tech digital solutions for materials and production processes

**TREE-TOWER** develops innovative software tailored to specific needs to support companies in the era of smart manufacturing, providing solutions for the integration of:

- Virtual Testing of materials and components
- Digital Twins of products and processes
- Computer Aided Design
- Computer Aided Engineering
- Fast prototyping solutions
- Sensor networks design
- Big-data analytics for production and maintenance
- Corporate strategy

**High-Tech R&D**

Innovative solutions integrating numerical methods, mechanics and materials science, using innovative software.

**Virtual testing of materials**

Finite element & computational fluid dynamics software to perform virtual testing of materials and components, saving time requested for lab experiments and speeding-up the design of new products.

**Digital Twin models**

Software to create the digital model of a real material or a production process, to allow for its real-time optimization and control.

**CAD-CAE integration software**

Software to integrate computer aided design (CAD) and computer aided engineering (CAE) tools for materials and components, exploiting Virtual Reality for visualization.

**TREE-TOWER accreditations**

- Innovative start-up (Italian Law 221/2012)
- Academic spin-off of IMT School for Advanced Studies Lucca
- Incubated company at Technological Pole of Lucca

**TREE-TOWER history in a nutshell**

TREE-TOWER was founded in April 2019 by Dr. Francesco Biancalani and Prof. Dr. Ing. Marco Paggi, to develop customized high-tech digital solutions for smart manufacturing. Awarded 3rd place at the Start Cup Tuscany 2019 competition among the best entrepreneurial ideas in 2019.

**Contacts**

**TREE-TOWER** S.R.L.

Via della Chiesa XXXII, Trav. I n. 231, 55100 Lucca (Italy)

+39 0583 1748053

info@tree-tower.eu

www.tree-tower.eu