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COME AND THRIVE
• Experience a rich scientific environment
• Enjoy a positive work setting
• Establish a network of professional contacts

PROFESSIONAL PROSPECTS
The main career opportunities for graduates in Materials and Nanotechnology are: innovation and development of production, advanced design, planning and scheduling, management of complex systems and the qualification and diagnosis of materials. Graduates in Materials and Nanotechnology will be able to find employment with companies for development and production, processing of metallics, polymers, ceramics, glassy and composite materials for application in the chemical, mechanical, electrical, electronic, telecommunications, energy, construction, transport, biomedical and environmental sectors as well as the conservation of Cultural Heritage.

UNIVERSITÀ DI PISA
The University of Pisa (UNIPI) is a public institution composed of twenty departments, with high level research centres in the fields of agriculture, astrophysics, computer science, engineering, medicine and veterinary medicine. Established in 1343, UNIPI is one of the most prestigious Italian higher education institutions and a modern centre for teaching and advanced research. One of the University’s main strategies is that of internationalisation as it aims to engage with students and researchers and establish long-term partnerships with universities and public and private institutions from all over the world. With a current student population surpassing 54,000, UNIPI offers a large number of degree programmes held in English and a variety of exchange programmes.

Study Materials and Nanotechnology in Pisa
The graduate programme in Materials and Nanotechnology features a unique interdepartmental programme including lecturers from the Civil and Industrial Engineering, Information Engineering, Physics and Chemistry and Industrial Chemistry departments of the University of Pisa. As a result, the programme is open to graduates from different branches of industrial engineering, computer engineering, physics and chemistry. The collaboration with lecturers from the Scuola Normale Superiore (SNS) and from the NEST Laboratory of the SNS also distinguishes the programme on a national level. NEST, the National Enterprise for Nanoscience and Nanotechnology, is a centre for research and interdisciplinary training concerning the nanoscale, which is used to develop new nano-biotechnological systems, devices and nano-electronic and photonic architectures. NEST comprises four different institutions: the Scuola Normale Superiore, the Italian Institute of Technology, the National Research Council and the Scuola Superiore Sant’Anna and is considered a laboratory of excellence internationally. Classes taught by SNS lecturers take place at the Scuola Normale Superiore.

Biomaterials
Characterization of Nanomaterials
Chemistry of Soft Matter
Computational Material Science
Electromagnetic Materials and Electron Devices
Interaction of Electromagnetic Waves with Complex Media
Materials and Devices for Nanoscale Electronics
Mechanical Behaviour of Materials
Nanomaterials
Quantum and Condensed Matter Physics
Quantum Optics Lab
Solid State Physical Methods
Spectroscopy of Nanomaterials

(Curriculum: Nanoscience and Nanotechnology)
Polymers and Nanotechnology
Silicon and Nanostructures
Sustainable and Degradable Polymers
Processing and Recycling of Polymers

(Curriculum: Advanced Materials)
Polymer Science and Engineering
Photocatalysis
Many Body Physics
Quantum Theory of Solids
Computational Nano-electronics and Micro-materials
Polymer Science and Engineering
Polymeric Materials for Special Applications
Thermodynamics
Disordered and off-Equilibrium Systems
Composite Materials Science and Engineering
Principles of Microfluidics
Sustainable and Degradable Polymers
Processing and Recycling of Polymers

The first year will focus on building and standardising a common knowledge about materials amongst the physicists, chemists and engineers admitted onto the course. The second year entails a specialised course divided into two topics, "Nanoscience and Nanotechnology" and "Advanced Materials." The programme is structured as follows:

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>ECTS</th>
<th>TOTAL 60</th>
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<tbody>
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