

SPECIALIZING MASTER IN FIBER DESIGN AND TEXTILE PROCESSES

IN COLLABORATION WITH CITTÀ STUDI BIELLA

I EDITION - OCTOBER 2018



The Made in Italy brand covers a vast field of products which describes the Italian excellence, the "beautiful and well made", often however, the brand is associated with a dress, an accessory or a piece of furniture but not referring to the material used to create such products. Instead, in the textile sector, there is a know-how that allows Italy to be among the best producers in the world, not only for clothing but also for technical textiles, more specifically, the **new polymer materials**.

The Specializing Master in **Fiber Design and Textile Processes** aims to form a profile able to understand, manage and apply new fibers and new materials for the creation of a product in the various areas where these fibers may be used.

GOALS

Polymer fibers now account for approximately 70% of the market and the applications are:

- chassis for automotive, aerospace, shipbuilding, railways and military;
- structural parts with high resistance and low weight;
- protective clothing for sporting activities, industrial workers and the military;
- prosthetics for artificial limbs or organs;
- advanced home automation.

All this combined with the latest web development: IoT (Internet of Things). "Smart objects" are the future of integration man-machine and the textile

manufacturing process can use IoT for all applications made available by new polymers. The Specializing Master goal is to **offer a unique educational programme** by providing quality knowledge and skills for designing **innovative fibers and new materials** including the Internet of Things (IoT) and environmental sustainability, thanks to the local companies involved throughout the academic programme and their generous support.

PROFESSIONAL OUTCOMES

At the end of the programme, the student will have learned how the technology of textile processing can manufacture **objects or high-tech fabrics which may be integrated with IoT**. The student will also acquire the ability to design a product not only from a point of view of functionality and aesthetics, but also from a point of view of **production and global supply chain**.

Together with the textile companies who are directly involved, the goal of the programme is to **increase today's "textile culture"**, necessary for new types of research on innovative fibers in parallel with the traditional "noble" fibers. The programme also focuses on the current situation of the textile industry and the skills needed to understand this business.

The manufacturing industry is a solid reference for participants in the Master, a world where they can learn

about the production processes and materials in order to choose correctly the best technical solution to create an innovative product.

ADMISSION REQUIREMENTS

The Specializing Master is completely **held in English** and it is reserved to candidates with a University Diploma, a Bachelor or a Master of Science in Industrial Design, Architecture, Engineering, Economics or Scientific disciplines (Chemistry, Computer Science, Physics). Applications received will be evaluated on the basis of curriculum, final degree mark, evaluation of the professional experience, English knowledge and the assessments of the reasons attached to the application. The selection can be completed with an interview. A maximum of 35 students will be admitted. To apply, candidates must submit the documents to POLI.design Training Office, formazione@polidesign.net

COST

12.000,00€
(11.500,00€ cost of the Specializing Master + 500€ entry fee at the Politecnico di Milano)
FREE VAT ART. 10 DPR 633/72.

CONTACTS

Education - POLI.design
Via Durando 38/A,
20158 Milano
formazione@polidesign.net
T. +39 02 2399 5864
F. +39 02 2399 5970

Città Studi
C.so G. Pella 2b, 13900 Biella (BI)
unibiella@cittastudi.org
T +39 015 855 1110



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MILANO 1863



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