FAQ

What are the professional profiles emerging from this Interdisciplinary Programme?

What skills will I develop during the programme?

What are the cross-technical skills developed during the programme?

What are the job sectors open to the students that have completed this Interdisciplinary Programme?

What are the main emerging professional profiles?

What are the laboratories included in the programme?

What are the prospects of growth for the professional profiles in this sector?

The Interdisciplinary Programme in Smart Wearable Technologies is addressed to engineering and design students who desire to acquire the necessary skills to enter the ever-expanding sector of smart wearables. At the end of their studies, graduates will be able to hold advanced professional roles in various sectors, including:

- The design and development of wearable devices for applications in the industrial, healthcare and sports sectors,
- The research and innovation aimed at the development of increasingly sophisticated and reliable wearable technologies, with high performance and optimized energy consumption,
- The design and engineering of products capable of combining technology and aesthetics, while improving users' experience

Smart Wearable Technologies

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Thanks to the Interdisciplinary Programme in Smart Wearable Technologies, engineering and design students will be able to enrich their Master's degree programme (Engineering Physics, Computer Science & Engineering, Biomedical Engineering, Electronics Engineering, Digital & Interaction Design, Integrated Product Design, Design & Engineering, Design for the Fashion System) with a set of new courses that will allow them to acquire expertise in the technologies of wearable electronic devices. Hence, future graduates will develop specialized skills such as:

- The design of electronic solutions and components, such as sensors and new hardware and software technologies, aimed at monitoring the user and their interactions with the surrounding environment,
- Their integration into wearable devices that act as an interface, allowing the user to access the information collected,
- The development of sophisticated solutions that combine the concrete benefits for the user deriving from integrated technologies, with a refined and effective design that naturally and discreetly adapts to their lifestyle.

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Thanks to the collaboration of the Masters of Science in Engineering Physics, Computer Science & Engineering, Biomedical Engineering, Electronics Engineering, Digital & Interaction Design, Integrated Product Design, Design & Engineering, and Design for the Fashion System, the Interdisciplinary Programme in Smart Wearable Technologies will give students the opportunity to attend new specifically-activated interdisciplinary courses that, depending on the starting degree programme, range from analog and digital holography to the physics of optical materials, to the integration of devices such as sensors and processors, and the integrated design of innovative and user-centered solutions. Hence, students will have the chance to enjoy a deep multidisciplinary experience that, thanks to the collaboration with experts from various fields, will allow them to acquire a global view of the entire product ecosystem and the tools necessary to face the current and future challenges of a rapidly evolving sector.

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Thanks to the multidisciplinary approach that combines different branches of engineering and design, the future graduates of the Interdisciplinary Programme in Smart Wearable Technologies will have the opportunity to enter different working sectors, such as:

- The industrial field (including fashion), for the design of wearable products with intuitive and functional interactions aimed at improving users' daily life and their interaction with the surrounding environment,
- The healthcare sector, for the development of smart devices equipped with advanced features that allow health monitoring and tracking of physiological parameters for clinical and healthcare applications,
- The sports field, for the design of increasingly sophisticated and effective solutions for the monitoring of athletic performance,
- The research and innovation sector, through participation to interdisciplinary collaboration projects in public and private research centers.

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The Interdisciplinary Programme in Smart Wearable Technologies will create professional profiles characterized by a strong multidisciplinary experience and capable of addressing the challenges of the ever-expanding market of smart wearables. Specifically:

- Physicists able to develop innovative materials and cutting-edge technologies for integration into wearable devices,
- Biomedical engineers specialized in the design of smart solutions for monitoring health and physiological parameters in the clinical and sports fields,
- Electronics engineers capable of designing sensors and devices for future integration into smart wearables,
- Computer engineers able to develop the hardware and software systems behind the functioning of the devices,
- Designers with a particular sensitivity to the creation of wearable systems, capable of creating devices that combine technology and aesthetics, and designing meaningful solutions for users.

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The Interdisciplinary Programme in Smart Wearable Technologies allows students to attend laboratories specifically created for this study programme, such as the Laboratory of Wearable Signal Processing, the Wearable Systems Lab and the interdisciplinary laboratory Professional Workshop Smart Wearable Technologies.

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Smart wearables are revolutionizing the way we experience technology, stimulating rapid and constant technological innovations, along with the expansion of the related global market. The current situation allows us to predict that wearable electronic devices will be increasingly used for activities such as health and sports performance monitoring, as well as in the industrial field for the design of highly technological and sophisticated products capable of effectively responding to specific needs. The result will be a growing demand for increasingly advanced features and the expansion of the use cases of the devices, opening new opportunities for development and integration.