eit Digital

MASTER SCHOOL

TOMORROW'S DIGITAL INNOVATORS AND ENTREPRENEURS

Our Master School offers two-year, European postgraduate programmes in computer science and information technology, with a focus on innovation and entrepreneurship. The Master School's programmes are delivered by leading European universities, partners of EIT Digital.

EUROPEAN MOBILITY

Master School students follow a scheme where they study one year at an 'entry' university and one year at an 'exit' university in two of EIT Digital's hot spots around Europe. Upon completion, graduates receive degrees from the two universities and a certificate awarded by the European Institute of Innovation and Technology.

UNIVERSITIES INVOLVED

On the Master School website the Trackfinder visualises the options for combining different technical programmes and specialisms. It allows matching of interests to the Master School Technical Programmes. Choose one university for the entry year and a second university in a different country for the exit year.

INNOVATION AND ENTREPRENEURSHIP

Entrepreneurial skills are considered a core competency of the top talent in any organisation. Best-in-class engineers and researchers combine excellence in science and technology with outstanding entrepreneurial behaviour. Therefore, four-course modules of Innovation and Entrepreneurship are offered at all universities. The basic courses build fundamental knowledge of innovation and entrepreneurship matters. Business Development Lab courses and thematic Summer Schools provide hands-on experience of innovation and new business development. Why? Simple! We want our graduates to set the bar for breakthrough innovation in new products and services, to become the digital transformation agents in companies of any size. r the exit year.

"The business knowledge I have gained during my masters is priceless. If we work hard, the Innovation & Entrepreneurship courses can open the door to a new future."

Isabelle Wilhelm

JOIN OUR HIGH-TECH ECOSYSTEM

EIT Digital Master School enables students to engage with our 200+ academic, research and industrial partners across Europe. Students have the opportunity to solve real-life problems in collaboration with industrial partners and bring innovation to the market as part of their Innovation and Entrepreneurship studies. We are active in all the major innovation hubs in Europe and beyond. Students will also be able to gain first-hand experience through the Innovation Activities hosted, managed and financed by EIT Digital. These activities focus on Europe´s strategic areas, like the digital industry, cybersecurity or wellbeing, to name a few.

"EIT Digital has made me more 'industry ready' than ever before. I feel I am equipped to take on varied roles in industry from business development to data science."

Vibhor Sharma

CLOUD AND NETWORK INFRASTRUCTURES

Cloud and Network Infrastructures provides a comprehensive view of network and cloud computing. Students will learn to master network management, operation, and design on the one hand and cloud service and deployment models, implementation strategies, and application design on the other. The programme also focuses on future directions of cloud computing, for example, in the fields of edge and fog computing as well as blockchains and distributed ledger applications respectively.

DATA SCIENCE

Data abounds: social media, manufacturing systems, medical devices, and countless other sources generate petabytes of data on a daily basis. With this wealth of data, we are at a point in history where we can conduct detailed analyses to detect, discover, and, ultimately, better understand the world around us. In this programme, students learn about scalable data collection techniques, data analysis methods, and a suite of tools and technologies that address data capture, processing, storage, transfer, analysis, and visualisation.

DIGITAL MANUFACTURING

Industry 4.0 is not about processes but about data, and about adding value to the customer. The new Digital Manufacturing programme at the EIT Digital Master School focuses on the digital technologies that are disrupting manufacturing. Students learn topics like robotics, IoT and edge computing, artificial intelligence, computer vision and AR, cybersecurity and manufacturing processes from both a computer science and mechanical engineering perspective. Our partner universities have strong ties to their local manufacturing ecosystem, which enable students to learn and explore opportunities in a variety of sectors.

EMBEDDED SYSTEMS

Embedded Systems focuses on enabling technologies and design methodologies for computer systems. These computer systems are embedded as integral parts of larger systems designed for specific control functions of devices with various electronic and mechanical components. More than 98 per cent of the world's processors are located in embedded systems. In satellites, robots, cars, aeroplanes, mobile telephones, radio transceivers, elevators and washing machines. They form an integral part of the Internet of Things.

HUMAN COMPUTER INTERACTION AND DESIGN

The programme focuses on study, design, development and evaluation of novel user interfaces and interactive systems which take into account human cognitive and sensory-motor responses and how they influence both technological and business requirements. The programme is interdisciplinary with courses on design and evaluation of interactive systems and a strong emphasis on user-centred design techniques. It is important to understand human responses to and consequences of using information technology as a tool for solving work-related tasks and in product development.

CYBER SECURITY

Cyber Security focuses on the study of the design, development and evaluation of secure computer systems, which are also capable of ensuring privacy for future ICT systems. Students learn about the future directions of the field including blockchain technologies, crypto-currencies, practical (ethical) hacking, and quantum cryptography. The programme provides an understanding of the concepts and technologies for achieving confidentiality, integrity, authenticity, and privacy protection for information processed across networks.

AUTONOMOUS SYSTEMS

Autonomous Systems combines Computer Science and Electronic Engineering to focus on self-driving cars, robotics and artificial intelligence. Students learn the latest theoretical knowledge and know how to apply their skills in practical real-life problems. Typical application areas of autonomous systems include autonomous vehicles, intelligent robots, industrial IoT and autonomous software systems.

FINTECH

Digital technology and finance have been inextricably linked for decades, but we are entering a new era. Technologies like machine learning, data analytics, biometrics or blockchain are creating new possibilities to address credit and risk management, identity management, information security, secure payments or investment portfolio management. Unlike many other Fintech programmes, which focus on the "Fin", the new Fintech of the EIT Digital Master School was created to give graduates an edge by focusing on the "tech" and dives deep into artificial intelligence, blockchain, cybersecurity, data science and mathematical modelling among other cutting-edge disciplines.

THE PROGRAMME STRUCTURE

The first year starts with basic courses to lay the foundation for the chosen technical programme focus. At the same time, hot topics in business and management will be covered. During the second semester, a design project is combined with business development exercises. These teach how to turn technology into business and how to present a convincing business plan. In addition, some elective courses may be taken. In between the first and second year, a summer school will address business opportunities within a socially relevant theme. The second year offers specialisation and a graduation project. The graduation project includes an internship at a company or a research institute and will result in a master's thesis with a strong innovation and entrepreneurship dimension.

TUITION FEES AND SCHOLARSHIPS

The costs of attending EIT Digital Master School are listed below.

CITIZENSHIP	TUITION FEES PER ACADEMIC YEAR
Citizen of an EU/EEA country	1,500 EUR
Citizen of a Non-EU/EEA country	14,000 EUR

The EIT Digital Master School scholarship programme invests significant budget per year per cohort to attract the best talent worldwide. Scholarships have a duration of two years, are merit-based, and are offered to the top applicants in each programme and each entry point.

ANY QUESTIONS?
NEED MORE INFORMATION?
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