



Digital
MASTER SCHOOL

Summer Schools 2017

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Tomorrow's Digital Innovators and Entrepreneurs

EIT Digital Summer Schools 2017

A key component in EIT Digital Master School students' innovation and entrepreneurship education is compulsory attendance at a two-week long summer school during the interval between the two academic years. The summer schools are also **open to external participants**, including secondees from our industrial partners.

This summer, ten summer schools will be held at locations throughout Europe, during which **students immerse themselves in real business cases** originating from EIT Digital's accelerators, startups and network of industrial partners.

The summer schools are linked to our Action Lines, themed around the five areas we see as the most challenging and that are also opportunities for Europe to take a leadership position in the global digital economy: **Digital Industry, Digital Cities, Digital Wellbeing, Digital Infrastructure, and Digital Finance.**

"...students immerse themselves in real business cases"



Summer School Programme 2017

EIT Digital Cities

By 2050, two thirds of the world's population will live in cities. Our summer schools respond to the challenge of maintaining attractive, inclusive and safe urban environments though the digital transformation of cities.

Urban Mobility, Safety and Exploration

Nice | June 25 – July 8

Citizen Participation and City Governance

Berlin | July 23 – August 5

EIT Digital Industry

With digital transformation, manufacturing industry is faced with new technological opportunities and business models. Our summer schools focus on digitised factories, blended retail, personalised products and data-driven processes.

Decentralised Production

Munich | July 30 – August 12

Retail, Markets, Consumer Engagement

Helsinki | August 6 – August 18

EIT Digital Wellbeing

Slowing down the growth of healthcare costs and maintaining the quality of life are the focus of our summer schools. Digital technologies are leveraged both for achieving healthier lifestyles and for long-term care of chronic conditions.

Healthy Lifestyle and Occupational Fitness

Lisbon | July 2 – July 15

Independent Living and Long-term Care

Eindhoven | August 6 – August 19

EIT Digital Infrastructure

Digital infrastructure is the core enabler of digital transformation by providing secure, robust, responsive and intelligent communications and computation facilities. Our summer schools target the technologies that drive the digital economy.

Cybersecurity and Privacy

Trento | July 1 – July 15

Big Data Analytics

Stockholm | August 6 – August 19

Internet of Things & Business Transformation

Stockholm | August 6 – August 19

EIT Digital Finance

Digital Finance is the delivery of innovative financial products and services through digital technology, with the objective of making financial systems more reliable, transparent, and customer friendly.

Blockchains for Economic Security

Budapest | July 23 – August 5

Summer Schools Format

The two-week summer school programme consists of focused lectures by academics and practitioners, project work, customer interviews, site visits to companies and socialising events. An important aspect of the summer school is the interaction with companies and entrepreneurs. Students are introduced to the state-of-the-art, including lab and company visits.

The theme related lectures, keynotes and visits will be interleaved with project work on business cases provided by EIT Digital partner companies.

The programme includes visits to innovation labs and incubators, presentations by high-tech startup companies and discussions with young technology-based founders and entrepreneurs. The summer school will end with a pitching session in front of a business panel.

After completion of the summer school, attendees will have the ability to:

- Perform a business planning process in the context of a societal relevant thematic area.
- Identify and assess the impact of ICT technologies and innovations in the thematic area, its markets and stakeholders (competitors, alliances, networks) and business opportunities they create.
- Understand user-centricity, business life cycles, global market trends, industry value chains, market segments, IPR issues, financial and risk-related issues.
- Apply personal presentation and communications skills, decision-making and leadership competencies.
- Reflect upon ethical, societal, scientific and sustainability considerations when developing new products technologies and business models.





Registration

Register here:

www.eitdigital.eu/eit-digital-academy/summer-schools/

The summer school programme is open to external participants.
The procedure for enrolment is as follows:

1. Fill in the webform, upload supporting material such as bachelor degree certificate and a description of entrepreneurial experience and motivation (e.g. what you expect to learn).
2. When accepted, you will be invoiced for the fee of **€750**. This will cover all expenses for the summer school except for accommodation and travel to and from the summer school. If you wish, you can choose to have the same hotel accommodation as the EIT Digital master students at the price of €250 on the basis of a shared room (12 nights).
3. If needed, you will have to take care of the visa application yourself.
4. One month before the summer school, you will be asked to complete an online assignment on business modelling methods and tools in order to align your knowledge with that of the EIT Digital master students.

Special registration conditions apply to EIT Digital community members and ARISE countries. Please check our event webpage for more information.

For additional information,
please contact us at:
masterschool@eitdigital.eu



EIT Digital Cities Summer School

Urban Mobility, Safety and Exploration

Nice, June 25 – July 8

Apply now

Mobility, information and safety are the anchor points for innovations driven by the Action Line Digital Cities. A multidisciplinary approach including service design, urbanism, and social sciences is used to provide an accurate understanding of the problems cities are facing, and the means to overcome these, in particular by developing sustainable business models.

The summer school located at Nice Sophia Antipolis will focus on business cases where usage and current technology deficits are a decisive factor. Many major mobility,

informative & safety related actors are located in Nice Sophia Antipolis region, together with leading public organisations with which we already collaborate. They will provide insightful strategic vision about the digitalisation of their activities.

Innovative City conference, the main Smart City conference in France will take place on the July 5-6, which is perfect timing to permit our summer school students to participate. The students will be accommodated in Antibes, 15min by bus from the campus.



EIT Digital Cities Summer School

Citizen Participation and City Governance

Berlin, July 23 – August 5

Apply now

Innovation in the city sector is not just about bringing in new technologies, but about coming up with new social arrangements to create inclusive innovations which serve a broad base of users, including disadvantaged groups. Nowhere else are innovations so closely and directly linked to the social and political sphere.

The rationale of this summer school lies in the exploration of the citizen's role in building the smart city: as active participants in shaping cities, as collaborative actors, as initiators of bottom-up processes and

prosumers of data and services. For the summer school students, the understanding of the urban social fabric will lead to a more holistic understanding and enables them to develop business models that apply to contemporary urban challenges.



EIT Digital Industry Summer School

Decentralised Production

Munich, July 30 – August 12

Apply now

3D-Printing, Big Data, Internet of Things, Machine Learning and Virtual Reality all describe components of a technology-driven process of organisational change. These technologies will enable radical alterations to a company's value creation, market access and customer and partner interaction.

To provide better customer experiences, companies are no longer competing with sole physical products but rather with a combination of physical products and services, so called Product Service Systems (PSS). Such innovations will be driven by data,

collected in real-time at the factory floor, from virtual and physical stores, and directly from customers.

Students will learn how to apply state of the art techniques for concept development, including Design Thinking and Video Prototyping to come up with innovative solutions and pitch their ideas. Furthermore, they will be able to develop and evaluate business models, perform an ecosystem analysis, and calculate a business case. All this is applied to the real cases of our industry partners.



EIT Digital Industry Summer School

Retail, Markets, Consumer Engagement

Helsinki, August 6 - August 18

Apply now

The retail sector is changing fundamentally with the rise of e-commerce, consumer's access to information and alternatives, and globalised markets. Dynamic and flexible omnichannel solutions – physical, online or blended – which enables the seamless consumer experience in exploration, in choice of products, payment and delivery.

It also enables collection and analysis of consumer trends and insights for logistics, retail operations and customer relations management. In this summer school, we will address the service innovations inspired by

technologies like customer profiling, indoor navigation and large screen interfaces or augmented reality.

The summer school will take place at EIT Digital's co-location centre in Helsinki at the Open Innovation House in Espoo.



EIT Digital Wellbeing Summer School

Healthy Lifestyle and Occupational Fitness

Lisbon, July 2 – July 15

Apply now

Global and societal trends like the ageing population and growing consumer empowerment demand an innovative and entrepreneurial ICT-enabled approach to health and wellbeing. ICT-based solutions are sought that reduce the demand for expensive healthcare by detecting still relatively small (mental & physical) problems early and avoiding larger health events by suitable lifestyle interventions.

The summer school will explore the trends in the western world and developing countries that form a hazard for our health and

wellbeing, and what it will take to reverse these trends. It will address ways to assess, measure (as in the “quantified self”) and promote fitness and mental wellbeing. Startup ventures and research centres from the Lisbon area will demonstrate the state of the art of digital wellbeing by providing lifestyle oriented cases. Attention will also be given to usability and social aspects that are detrimental or beneficial for a healthy lifestyle.



EIT Digital Wellbeing Summer School

Independent Living and Long-term Care

Eindhoven, August 6 – August 19

Apply now

Living longer unfortunately does not always imply that people are also healthier. The result is a strong increase in occupational and individual health care costs. The main challenge is finding effective means of lowering the demand for long-term care, and increasing the time span of independent living, with a maintained quality of life. A secondary challenge is to identify solutions that are acceptable to healthcare recipients from the usability and data privacy perspective.

The Digital Wellbeing business community will provide lifestyle oriented cases. Examples are early detection of cognitive disorders by speech analysis, empowering senior homes with sensor networks and developing smart lighting platforms to provide better lighting for the elderly.

The summer school will be held at EIT Digital's co-location centre at the HighTech Campus in Eindhoven.



EIT Digital Infrastructure Summer School Cybersecurity and Privacy

Trento, July 1 – July 15

Apply now

The main objectives of the summer school are to demonstrate the importance of data security and privacy for ICT applications in everyday life and work. Furthermore, students learn how to transform the knowledge gained into innovative business ideas and turn these ideas into convincing business proposals, and pitches to investment companies.

This will be achieved by a combination of use cases, insightful thematic lectures addressing various practical techniques

for data privacy and security, delivered by outstanding scholars from industry and academic institutions. To help the students without a background in security, a short introductory course in cryptography will also be delivered. The proposed use cases address secure and privacy-aware e-ID provisioning & e-authentication, e-health, e-commerce and mobile devices & systems.

The summer school will take place in the university premises in Povo. Accommodation will be provided in nearby Trento.



EIT Digital Infrastructure Summer School

Big Data Analytics

Stockholm, August 6 – August 19

Apply now

A key element in the digital transformation of infrastructure is the convergence and integration of intelligent networking and computing services for data analysis. The challenge is to provide core enabling functions for extracting value from the massive amounts of data generated, to support breakthrough innovations in industry segments like utilities, manufacturing and health.

The goal of this summer school is to teach advanced topics related to algorithms and platforms for Big Data as well as to enhance the innovation and entrepreneurial

awareness among the participants. The summer school will cover both presentations by researchers on Big Data analytics and platforms, as well as presentations by company experts on business models.

Bosön Conference site, Lidingö, Sweden will be the place for accommodation, meeting rooms and catering.



EIT Digital Infrastructure Summer School

Internet of Things and Business Transformation

Stockholm, August 6 – August 19

Apply now

The topic of the summer school is Internet of Things (IoT), as a main driver for future digital infrastructures. With the advances of ICT, all “things” will be connected through wireless access to software-defined and virtualised, intelligent networks that provide communication services with security, quality and reliability. One of the key challenges at an infrastructure level is the better integration of IoT in the current network and computational stacks.

The vision of IoT requires new technical solutions in the areas of embedded

systems, communication and computing infrastructures, security and privacy, but it also challenges the business ecosystems of the traditional telecommunication sector. The summer school will train students in analysing the implication that a new technology area might have on society, individuals and businesses. It will also focus on identifying emerging business roles and opportunities.

Bosön Conference site, Lidingo, Sweden will be the place for accommodation, meeting rooms and catering.



EIT Digital Finance Summer School

Blockchains for Economic Security

Budapest, July 23 – August 5

Apply now

Blockchain technologies provide decentralised, secure, timestamped, digital databases, being inherently resistant to modification of the data. The first applications were cryptocurrencies like bitcoin, later, many other implementations like smart contracts, voting, peer-to-peer insurance, etc. were developed. The story started only 8 years ago, but one can already see the wide range of possible applications.

The school will provide an introduction to Economic Security Engineering and Financial Cryptography. Basic protocols and their

applications will be discussed, including their vulnerabilities. First and second generation Blockchains will be analysed. We will then discuss ecosystems around Blockchains and cooperation between blockchains.

After the introduction on blockchain technologies, we will show some of the hot topics, and have some team work on Ethereum-based projects.



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