BOOTCAMP 2023
IOT & AI FOR SUSTAINABLE GLOBAL HEALTH AND WELLBEING

UNIVERSITÀ CAMPUS BIO-MEDICO DI ROMA

5TH Edition

21 AUGUST - 8 SEPTEMBER 2023

Jesus College Cambridge (UK)

WHAT IS THE BOOTCAMP?

An intensive 3-week programme of **lectures, labs and project work** to acquire technical skills and soft skills based on **industry use cases**. Tutoring and teamwork are essential parts of this team learning journey.
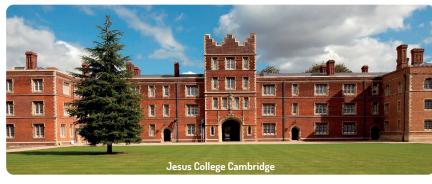
WHERE IS THE BOOTCAMP?

The Bootcamp is be a **full-immersion experience** held at **Jesus College at the University of Cambridge**. This prestigious location allows participants to be in the centre of Cambridge close to all amenities.

WHAT ARE THE LEARING OUTCOMES?

By the end of the Bootcamp, participants will be able to:

- Apply the main tools and methos of IoT and AI to real industry use cases
- Work in a diverse group of people to ideate, develop and present a solution to industry partners
- Improve and use their soft-skills in terms of team work, presentation skills and effective communication

A full-immersion experience learning by doing together.

Jesus College Cambridge

Bootcamp Scientific Director
Prof. Leandro Pecchia

PROGRAMME

Designed in collaboration with **academics and professionals**, this is a short and effective **3 week course** based on **experiential learning and practical activities**.

WEEK 1	WEEK 2	WEEK 3
IoT Fundamentals and Enabling Technologies	**Artificial Intelligence Fundamentals**	**Hackathon**

The 120 hour programme includes:

Tech Lectures (IoT & AI)

Tech Labs with tutors

Team Project Work

Transferable Skills Training

Business Lectures

AI and Ethics

Academic Tutors
Guide all the labs after each lecture
to ensure participants' learning

Industry Tutors
Help the teams with their work to ensure
the successful completion of projects

Transferable Skills Training
Communication and presentation skills, project
management, leadership and teamworking skills;

Business Studies
Benchmarking and Business Modelling.

ENTRY REQUIREMENTS

The Bootcamp is designed for **students, researchers and professionals** who want to have a **multi-disciplinary experience** and **want to acquire IoT and AI skills** in close contact with industry partners. To enrol in the Bootcamp, participants must have:

- B2 level or higher of English
- basic computing skills and familiarity with at least one programming language.

INDUSTRY USE CASES

We believe in **project-based learning**. The programme is entirely built on use cases provided by our industry partners. Participants work in teams to find **innovative solutions to real problems**.

a³cube

Software and hardware longevity: using AI to lengthen the lifecycle of equipment and digital systems

Artificial intelligence is a key element that comes to the aid of managing complex systems and supports the optimization of industrial processes. Exploring different designs is essential to ensure systems' longevity and sustainability.

DXC TECHNOLOGY

AI-based health, mental and wellness longevity platform for elderly population

Developing an AI-based health and wellness platform that integrates personalized health coaching, mental health support, and proactive health risk assessment using data from IoT devices such as Fitbit with a particular focus on Silver economy.

enav

ENAV connect - beyond digital walls and paper-waste

Reshaping the human-machine-interface (HMI) of air traffic controllers' mobile application, releasing full hardware and software potential of modern smartphones.

IBM

AI Platform for Empowering Family Caregivers to Ensure the Safety and Wellbeing of Vulnerable Groups

Empower family caregivers to proactively supervise the safety and wellbeing of vulnerable groups, such as children and elderly parents, by leveraging a solution that integrates data from daily activities.

PITCH DAY

During the final **Pitch Day** on the 8th September each team will present their solution to a **Jury Panel** of industry experts. The team presentations will be followed by a formal **Gala Dinner** and the **Award Ceremony**. The winning team will be awarded a **€ 1.000** prize donated by Campus Bio-medico University of Rome.

FACULTY

PAOLO BENANTI
Professor of Moral Theology, Bioethics and Neuroethics at the University of Gregoriana

SALMAN HALEEM
School of Engineering Warwick University

ALEXANDRE KABLA
Department of Engineering, University of Cambridge

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Programme Director University of Cambridge

COSTS

	UCBM	Partners	Regular
Course only	€ 2.000,00	€ 2.250,00	€ 2.500,00
All inclusive	€ 3.900,00	€ 4.250,00	€ 4.500,00

SCHOLARSHIPS

If you are interested in applying for a scholarship, please contact us to **request the Scholarship Guidelines** at bootcamp@unicampus.it.

We particularly welcome applications from international participants and women in STEM.

PARTNERS

IN COLLABORATION WITH

BOOTCAMP@UNICAMPUS.IT
HTTP://WWW.UNICAMPUS.IT/ENG/BOOTCAMP