



Welcome

If you're passionate for technology and want to contribute to drive the digital transformation, Barcelona Technology School is your place.

The digital ecosystem in Barcelona is now warmer than ever. The strategic alignment of the government, the industry and educational institutions like BTS, are mixing the best ingredients to boost the European capital of innovation.

The results of the Barcelona's digital strategy are excellent, international companies are landing in Barcelona to relocate their digital and tech headquarters. To mention a couple of examples: Zurich Insurance Group has opened its International Big Data Centre in the city; Nestlé has launched its Global Digital Hub in order to lead digital services from Barcelona, the European Capital of Innovation.

A healthy startup environment also feeds this innovative ecosystem; the city concentrates 60% of the total investment on startups in Spain. This, supported by initiatives like the Mobile World Congress, makes the city an ideal

place for international entrepreneurs. More and more startups, accelerator programs, venture capital players and tech educational projects choose the city to develop its activity.

Thanks to this healthy tech ecosystem, there has been a high demand of digital talent which permits Barcelona Technology School to ensure you professional experience through paid internships and job opportunities during master programs that will help you to develop the most demanded digital skills.

Now, you have the opportunity to join the digital transformation from one of the hottest international tech spots.

Josep Clotet General Manager



BTS Student Profile











55% Engineering & Computing



27% Economics & Management



9% Sciences



9% Others

Strategic Advisory Board



Ricardo Baeza Yahoo! VP of Research



Aleix Valls Mobile World Capital CEO



Marko Gargenta
Twitter
Director of Twitter
University



Sudha JamtheEbay
Mobile Business Leader



Andy FeierfeilTarget
Senior Mobile Manager

The members of the BTS Strategic Advisory Board are well known industry leaders who take care of the quality and contents of the programs.

Academic Board (cv-professional experience)

Academic Directors



Sandro Mancuso London Software Craftsmanship Founder



Carlos CastilloDirector of Research for Data Science at Eurecat



Marc Torrens CIO at Strands

Professors



Marc Planagumà Big Data



Miquel Rodríguez Agile



Saul Tessler Entrepreneurship



Jorge BlascoDigital Business



Javier Domingo
Cloud Computing



Pablo Sordo Android Development



Gaby Prado User Experience



Michele Trevisiol
Big Data



Sonia García Web Development



José Carlos Gil Software Craftsmanship



José E. Rodríguez Web Development



Pedro Fernandes Creative Technology



Martí Escursell Venture Capital



Marc Boquet iOS Development



Alfred Maeso Project Management

3D Learning

Barcelona Technology School has developed its own practical, active and participatory methodology with emphasis on "learning by project" where participants generate their own digital solutions. This methodology reflects digital industry demand for new professionals with skills such as:



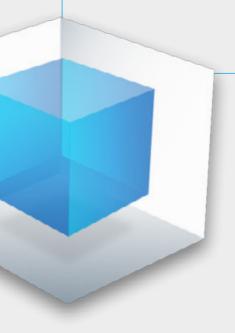
Business and **Innovation Skills**

- > DIGITAL TRANSFORMATION
- > DIGITAL & MOBILE BUSINESS
- > CREATIVE TECHNOLOGY
- > INNOVATION
- > ENTREPRENEURSHIP
- > FINTECH
- > LEGAL TECH
- > CHANGE MANAGEMENT
- > DIGITAL TALENT&CULTURE





- > EMPATHY AND COMMUNICATION
- > INTERNATIONAL SCOPE
- > FLEXIBILITY
- > COLLABORATION & NETWORK
- > TRANSVERSAL VISION
- > CURIOSITY
- > COMPROMISE & RESPONSIBILITY



Technical Skills

- > WEB DEVELOPMENT
- > MOBILE DEVELOPMENT
- > USER EXPERIENCE
- > BIG DATA
- > MACHINE LEARNING
- > CLOUD COMPUTING
- > INTERNET OF THINGS
- > CYBER SECURITY
- > SOFTWARE CRAFTSMANSHIP
- > BLOCKCHAIN

BTS TECH INDUSTRY ECOSYSTEM

Barcelona Technology School has assembled an ecosystem of companies that supports BTS programs, providing industry exposure and bring professional experience to students trough internships and job opportunities.

With the support of

Academic Partners / Industry Partners / Spanish and Catalan Government



Technology Research Centre of Catalonia



Mobile Transformation for Society



Spanish Government for Internationalization



Powering Content, Search & Data











Innovation and High-tech Consulting

Digital Transformation Services

Government of Catalonia

Best Luxury Hotels around the world



Academic Board

High qualified instructors and well known professionals



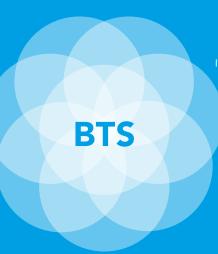
Career Mentors

Get professional orientation for your digital career



Entrepreneurs & Incubators

Inspire your own projects and new disruptive digital business





Digital Companies

Visit and learn from the tech leaders.



IT Labs &I+D+i

IT Labs & innovation projects exposure



Project Mentors

Real & experienced Professionals will mentor your digital projects



University

Ensures academic accreditation, quality and certification



The Mobile World Congress Startup Platform



Leading Company in Humanoid Robots



Barcelona Big Data Centre of Excellence



EdTech Company for Learning Experience



Global Network of Startup Accelerators



Empowering IT Teams

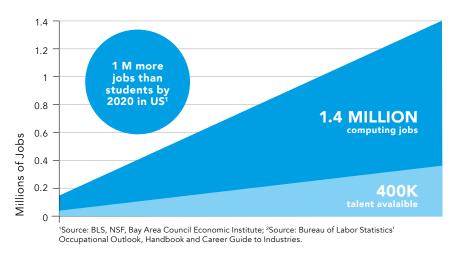


Fintech Leader Monetizing Data



Cloud Computing for Digital Society

Digital companies need your talent



By **2024** there will be **4.500.000** unfilled computer science jobs worldwide²

Tech industry is exploding and the key digital companies need your talent. Barcelona Technology School connects your career with the digital sector while offers you the most demanded digital knowledge & skills.

Thanks to the agreements Barcelona Technology School has with the digital industry, you will have the chance to live a professional experience trough paid internships in some of the top digital companies that are part of the BTS Ecosystem.



Sports

All the BTS students enrolled into a Master program have free access to one of the best sport clubs in the city which is located in front of the beach. Enjoy swimming pools, gym and lead classes, spa, paddle courts and much more.

Play sports, make friends or simply take a relaxed bath on the sea.



Global Chapters

The Global Chapters programs are an international experience for students & entrepreneurs that want to discover the epicenters of the world's digital ecosystems:



This experience exposes students to how business is done in those ecosystems and creates long lasting relationships between students, companies, and business leaders.

Sample Week Itinerary

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	
Visit large digital corporations	Tour in Silicon Valley	Entrepreneurship culture immersion	Visit the Palo Alto Research Center	Network building	Private VC and Startup parties	Free	
Meals with digital leaders							

Students visit companies like





Master in Digital Solutions Development. MDSD

The most advanced Master for the next generation of developers.

Master in Digital Solutions Development. MDSD



The main goal of MDSD is to help you develop the skills that will permit you to participate in the digital transformation.

This program is focused on the development of digital solutions, providing you a wide vision and understanding of the most influential knowledge and technologies.

Contents Master in Digital Solutions Development



Web Development

- Fundamentals of HTML5, CSS3 and Javascript
- 2. Jquery, Angular JS
- 3. Java backend, Spark Java, DropWizard, Deployment
- 4. Database, MySQL, Postgres



Software Craftsmanship

- Introduction to Software Craftsmanship
- 2. TDD
- 3. Software design
- 4. Dealing with legacy code



Mobile Development

- 1. Mobile development
- 2. TDD
- 3. Mobile app security
- 4. Publishing apps



User Experience

- 1. UX Strategy
- 2. UX Process & Research
- 3. Conceptual & Visual design
- 4. Prototyping



Agile

- Agile Management VS Traditional Management
- 2. Scrum
- 3. Kanban
- 4. Visibility and transparence



Big Data

- 1. The Data-driven business
- 2. Data engineering
- 3. Data science
- 4. Visualization & Explotation

Contents Master in Digital Solutions Development



Digital Business

- 1. The digital transformation
- 2. Digital products
- 3. Online marketing
- 4. Creative strategy on the internet



Mobile Business

- 1. Business Case for Mobile
- 2. The mobile landscape
- 3. Setting mobile marketing KPI's
- 4. Mobile's Role In The Purchase Cycle



Entrepreneurship

Basics associated with innovation and building a new venture or initiative from scratch either inside an existing organization or as a new startup



Creative Technology

Ability to think creatively with a business frame of mind, focusing on bringing new innovations to market. It will instill an appreciation of the characteristics and motivations of creative people.



Cloud Computing

- 1. Business Value in Cloud Computing
- 2. Steps to Successful Cloud Services
- 3. Managing Cloud Computing Risks
- 4. DevOps: Continuous Integration& Deployment



Project

Hands-on training. Thanks to a digital product transversal challenge, students combine business and innovation skills with tech development skills to build a "ready to market" project.

Contents can be modified according to the needs of the program.

Details Master in Digital Solutions Development

ТҮРЕ	LOCATION	DURATION	LANGUAGE	
Full Time Master degree	Barcelona, Spain	9 months (1 academic year)	English	
ACCREDITATION	CREDITS	INTAKE	FEES	
by University of Barcelona*	60 ECTs	October	17.000€	

PAID INTERNSHIPS & DIGITAL JOBS

BTS offers paid internships in leading digital companies to their students. Take advantage of the BTS ecosystem and get a professional experience during & after the program.

*University of Barcelona ranked best university in Spain by:





QS World University Rankings, WUR (September 2016)



Center for World University Rankings (July 2016)



Best Global Universities (October 2016)

Ask for information:



info@barcelonaitschool.com 🚺 +34 933 041 721



73% of all jobs in the next 5 years will require technology skills

Introduction to Software Development. Pre-Course

For entry students without technical background that want to enroll the Master in Digital Solutions Development.



Technology background is not mandatory

Contents Introduction to Software Development



Introduction to relational Database & SQL

- 1. Introduction to relational database
- 2. Data management language
- 3. SQL (Structured Query Language)
- 4. Data definition language



Introduction to Object-oriented programming

- Introduction to software development lifecycle
- 2. Fundamentals of programming
- 3. Object-oriented programming



Introduction to Java

- 1. Java basics
- 2. Flow of control
- 3. Composition and inheritance
- 4. Interfaces



My first development project

1. Hands on work

The aim of this course is to provide the base knowledge that any student needs to enroll the Master in Digital Solutions Development.

How to apply

If you are passionate about software development and you would like to access to job opportunities, develop the best digital talent and have a master experience in Barcelona...we just ask you for 4 requirements:

1 Application Form

barcelonatechnologyschool.com

2 Motivation Letter & CV

Send the admissions office your CV as well as a motivation letter explaining how you think the digital industry will be in the next five years and how you could contribute to the digital transformation.

You can submit this documentation directly to info@barcelonaitschool.com

3 Interview

Our admission board, as well as the director of the program, will analyze your candidature and if you meet the profile of Barcelona Technology School, we will call you to have a chat.

4 Payment

To ensure your place on the Master, you must secure it by making the reservation payment.

MDSD

Web and Mobile Development, Cloud Computing, Big Data, User Experience, Agile, Software Craftsmanship, Digital Innovation, Entrepreneurship and Digital Business.

Full-Time Program
Barcelona
9 Months
English
Intake: October
60 ECTs
17,000€

Awarded by University of Barcelona. Ranked best university of Spain.

Admissions Office

+34 933 041 721

info@barcelonatechnologyschool.com www.barcelonatechnologyschool.com

Testimonials



"Cloud computing was my favourite class. Fantastic teacher, very committed to help us. It was a great course! Lot of professional applicability and very valuable skills!"

Damien Dupont – France BTS student



"Great Android Development teacher!Emphatetic to the learner and very clear explanations"

Hugo Davis – UK BTS student



"Web Development teacher is one of the best teachers I had. Smart, calm, professional, always helps us and makes everything possible to improve our classes"

Nastassia Sherenkova – Belarus BTS student



"Best teacher of the MDSD, more like a mentor or someone that wants the best of ourselves than a regular teacher. Digital Business is going to be pretty neat, I'm sure of it!"

Juan Orero – Spain BTS student



"The UX course has been the one that shaped this Master programme the most. It has a good relation between practice and theory and is most applicable to our professional life. Gaby takes a lot of attention to prepare the course and teach us detailed and complex examples of UX that currently shape the technology world. She is a very passionate teacher and has turned us into critical thinkers."

Susanna Maier – Austria BTS student



why BTS

- 1 Certification awarded by the University of Barcelona. Ranked best university of Spain.
- 2 Professional experience during the Masters through paid Internships & Job Opportunities.
- 3 Ecosystem of top digital companies and tech labs.

GREAT CAREERS ARE WAITING FOR BARCELONA TECHNOLOGY SCHOOL **GRADUATES**

- International environment of tech people from all over the world.
- 5 Development of the most demanded digital skills.
- Beach & sports club, social and sports installation located on the beachfront of Barcelona.

Information and admissions

info@barcelonatechnologyschool.com (+34) 93 304 17 21

Location

Barcelona. Almogàvers 123 Barcelona's Technological district (22@)



BTS

www.barcelonatechnologyschool.com