

A portrait of a young woman with long, curly brown hair and red-rimmed glasses, smiling at the camera. She is wearing a dark blue, textured knit sweater. The background is a solid blue wall.

Master in Digital Solutions Development

www.barcelonatechnologyschool.com



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. Just to mention a couple of examples, this is the recent case of Zurich insurance group, which is opening its global Big Data center in the European capital of innovation. Also the Swiss company Nestlé has recently announced that their international digital services will be lead from the city.

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.

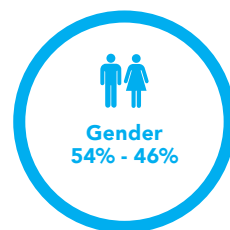
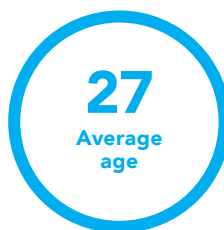
As consequence of this healthy tech ecosystem, it is generated a high demand of digital talent. That permits Barcelona Technology School to ensure you professional experience through paid internships and job opportunities during master programs that will help you to develop the most demanded digital 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

Academic Board (cv-professional experience)

Strategic Advisory Board



Ricardo Baeza
Yahoo!
VP of Research



Aleix Valls
Mobile World Capital
General Manager



Marko Gargenta
Twitter
Director of Twitter
University



Sudha Jamthe
Ebay
Mobile Business Leader



Andy Feierfeil
Target
Senior Manager Mobile

The members of the BTS board of strategic advisors 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



Elies Campo
Whatsapp
Business Development

Professors



Marc Planagumà
Big Data



Miquel Rodríguez
Agile



Saul Tessler
Entrepreneurship



Jorge Blasco
Digital 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

BTS

METHODOLOGY

LEARNING

ECOSYSTEM

Barcelona Technology School has developed its own practical, active and participatory methodology with emphasis on “learning by project”.

A key part of the program is project-based learning, where participants will either generate and develop their own digital projects & solutions. This methodology reflects digital industry demand for new professionals with skills such as:

Core Skills

General in all BTS Programs



Empathy & Communication

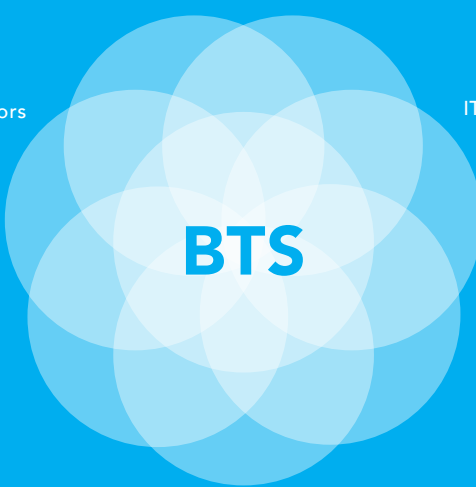
International Scope

Flexibility

Collaboration & Network

Transversal Vision & Curiosity

Compromise & Responsibility



BTS



Academic Board
High qualified instructors
and well known
professionals



IT Labs & I+D+i
IT Labs & innovation projects
exposure



Career Mentors
Get professional orientation
for your digital career



Project Mentors
Real & experienced
Professionals will mentor your
digital projects



Entrepreneurs & Incubators
Inspire your own projects
and new disruptive digital
business



University
Ensures academic
accreditation, quality
and certification



Digital Companies
Visit and learn from the tech
leaders.

Technical Skills
Specific for each Program



Web & Mobile Development

Agile

Software Craftsmanship

User Experience

Big Data

Internet of Things

Cloud Computing

Security Management

Business and Innovation Skills
Specific for each Program



Digital Business Administration

Mobile Business

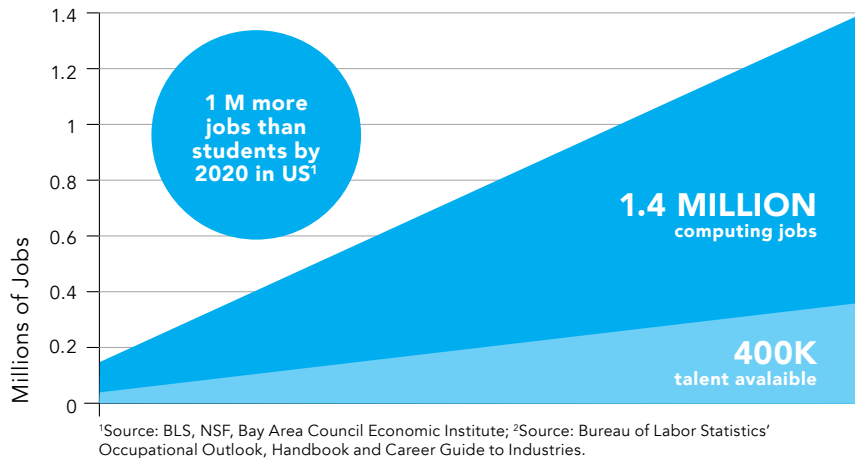
Creativity & Innovation

Analytics & Data

Project Management

Entrepreneurship

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.



Your
Talent

BTS

Digital
Industry

Paid Internships & Jobs Opportunities

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.



Master in Digital Solutions Development. MDSD

The most advanced Master for the next
generation of developers.

Master in Digital Solutions Development. MDSD



Objectives

MDSD main goal is to help you to develop the skills that will permit you to take direct part of the digital transformation.

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

Contents Master in Digital Solutions Development



Web Development

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



Agile

1. Agile Management VS Traditional Management
2. Scrum
3. Kanban
4. Visibility and transparency



iOS Development

1. iOS development
2. TDD in Objective-C
3. Mobile app security
4. Publishing apps



Software Craftsmanship

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



Android Development

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



User Experience

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

Contents Master in Digital Solutions Development



Big Data

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



Cloud Computing

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



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.

Details Master in Digital Solutions Development

TYPE	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:



Academic Ranking
of World Universities
(August 2015)



QS World University
Rankings, WUR
(September 2015)



Center for World
University Rankings
(June 2015)



Best Global
Universities
(October 2015)

Ask for information:



info@barcelonaitschool.com



+34 933 041 721

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

Source: US-BLS Employment Projections

Introduction to Software Development. Pre-Course

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

TYPE	STARTS	DURATION	FEES
Full time	September	4 weeks	2.200€

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 Java

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



Introduction to Object-oriented programming

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



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

Candidates must send to the admissions office their CV as well as a motivation letter explaining how they think the digital industry will be in the next five years and how they 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.

An aerial photograph of Barcelona, Spain, showing a dense urban landscape with numerous buildings, streets, and green spaces. The city is viewed from a high angle, looking towards the sea in the background.

GREAT CAREERS ARE WAITING FOR BARCELONA TECHNOLOGY SCHOOL GRADUATES

- 4 International environment of tech people from all over the world.
- 5 Development of the most demanded digital skills.
- 6 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