



Our **Building Energy-Maintenance and Safety (BEMS) Engineers** provide the internal environmental conditions that enable business processes, all along the **building life cycle**, to function at an optimum level while providing comfort, health, welfare and safety conditions for occupants. They understand how the **engineering, operating and maintaining services** influence the **performances of buildings**, such as **energy efficiency**.

The BS designers key objective is the trouble-free use of the engineering services of any **property operator** both in terms of economic, reliable performance and ensuring that

legislation is complied with. They use **risk assessment methods** allowing to anticipate and mitigate the impact of business, design, operation and disposal risks.

The BS engineers have the ability to produce a **maintenance contract**. They carry out **commissioning and testing** to ensure that the design intent is achieved in practice. They also determine how to control the **building services**, the performance of any **engineering installation**. They are able to implement the **maintenance strategy**. They have the ability to perform **condition surveys** and **maintenance audits activities**.



POSITIONS

BUILDING SERVICES AND SAFETY ENGINEERING

Director of Technical and Security Services – Head of Technical Project Management and Supervision – Building Site supervisor – Project Manager - Building Manager – Infrastructure Operations Supervisor – Facility Management Engineer – Consulting Engineer in Facility Operation – QSE engineer – Head of Operations – Fire Safety Manager – Project Manager- Head of Risk Management and Prevention Department – HSE expert – Work Safety Project Manager

FIELDS OF ACTIVITY

FACILITIES ET PROPERTY MANAGEMENT

Multitechnical Services – Property management – Building site supervision and organisation – Consultancy – Business center management – Commercial real estate management: shopping malls, conference center, exhibitions – Management of catering patrimonial assets – Banking – Construction inspection – Hospital Security Department – Risk management and prevention consulting – Large industrial and commercial group building management – Regional Authorities

Our graduates can work as **head of fire safety**; the school is authorised to issue **SSIAP 3 certification** (Security Services for Emergencies and Personal Assistance, level 3) required for high-rise buildings. They are able to **manage risks**, **organise prevention**, **supervise** safety department organisation and **design** crisis management processes.

CURRICULA

72%
of trainers are
professionals

Salary

40 k€
(average salary
upon hiring)

3	3RD YEAR
	General courses English – German or Spanish – Sports – Company Economics – Financial Analysis and Accounting – Building Cost Expertise – Computer Network – Communication – Organisational Sociology
	Fundamentals in Engineering Quality – Projects – Hygiene and Health – Applied Statistics – Design of Experiments
	Building Performance Geotechnical engineering – Safety and Durability of Buildings – Construction Materials – CAD – Building Disorders – Building Site Safety – Fire Protection Fundamentals – Finishing works/Installation
	Energy, fluids, environment HVAC Engineering – Electricity – Thermal Building – Functionality, Comfort – Acoustics – Classified Installations for Environmental Protection – Electrical Risks – Waste Management – Electricity Distribution – Low Voltage Systems – Thermal insulation for building
Internship abroad (3 months)	

4	4TH YEAR
	General courses English – German or Spanish – Project Planning – Sports – Communication – Financial Analysis – Building Cost Estimates
	Maintenance and Safety Engineering Functional analysis – Ecodesign – Life Cycle Analysis – Building Rehabilitation Techniques – Commissioning – Computer Assisted Property Management – Risk Analysis – BIM Management – Data Analysis – Risk Management – Fire Modelling – Fire Origin Investigation – Industrial Risks – Environmental Risks – Performance Guarantee – Enhanced Building Performance – Smart Buildings – Continued Activity Planning – CBRN risks – Operation Planning and Safety – Case study
	Management and Law Contract law – Public Procurement – Human Resources Management – Contract Requirements – Quality Audits – Customer Satisfaction
	Steering Tools Service Quality – Qualification and standards – Energy Manager – Facility Management – Company Policy
Internship (3-4 months)	

5	5TH YEAR
	General courses English – Professional Integration – Occupational Risk Responsibility
	Management and Decisions Project management – Change implementation – Assistance with Decision Making – Risk Management – QSE Management – Health and Building Audit
	Building Operation Maintenance and Safety Commercial Real Estate – Logistics Real Estate – Fire Safety Regulations – Fire Safety
	2 specialisation programmes
Internship (5-6 months)	



2 SPECIALISATION PROGRAMMES

→ Real Estate Enhancement and Sustainability

Improvement and Performance – Building Assistance – Sustainable Social Housing – Property Management – Contract and legal Framework – Real Estate Information System – Assets and Cost Management – Maintenance Project

→ Operational Risk Management

Security Technical Elements – Fire Safety Engineering – Fire Origin Investigation – Safety of Manufacturing Processes – Improved Safety in Building Operation – Human Reliability – Safety Regulations – Safety-related Documents – Implementation of a Culture of Safety – Safety Project

COMPANIES THAT HAVE RECRUITED OUR ENGINEERS:

Artelia, Eiffage Energies, Apsys, SPIE, Savills, Quadrim Atlantique, BNP Paribas Real Estate, Apave, Unibail Rodamco, CBRE...