MASTER
IN DATA SCIENCES
& BUSINESS ANALYTICS

—

ESSEC
BUSINESS SCHOOL

CentraleSupélec

FINANCIAL TIMES
BUSINESS EDUCATION
RANKINGS

FT FINANCIAL TIMES

#9 European Business School (2022)

#5 Master in Management (2023)

#3 Master in Finance (2023)

#9 Executive Education Programs (2023)

ESSEC BUSINESS SCHOOL

Vincenzo Vinzi
Dean and President
of ESSEC Business School

CREATED IN 1907, ESSEC BUSINESS SCHOOL IS A WORLD-SCHOOL WITH FRENCH ROOTS. ITS PURPOSE IS TO INFUSE TOMORROW'S LEADERSHIP WITH MEANING.

ESSEC is a **business school** with programs ranging from Bachelor to PhD, a wide range of Masters programs including our flagship **Master in Management** and **Global MBA** programs. ESSEC also offers executive education and custom training designed and developed on-demand for our partners from the private sector. ESSEC holds the **"Triple crown"** of accreditations for global business education: **EQUIS, AACSB** and **AMBA.**

At the core of the ESSEC learning experience is a combination of **excellence and distinctiveness.** ESSEC's **unique educational model** is based on education by experiences, that foster the acquisition of **cutting-edge knowledge** with the development of **know-how** and **life skills.** At ESSEC, we aim to **empower** students and give them the keys to imagine, create, lead and have a **positive impact** in the business world of tomorrow that will be more complex and changing ever more rapidly.

ESSEC is a world-school. Our International campuses in **Asia-Pacific** and **Africa** are **dual gateways** that allow students to really immerse themselves into **different cultures** worldwide and develop **genuine expertise** about business in those regions. They allow our school to build deeper alliances with academic, private and public partners in those regions that are growing at an accelerated pace and will be leaders of economic growth in tomorrow's world. ESSEC has built a network of alliances with **academic partners worldwide** so that its students' learning journey is a true international one.

ESSEC is a school with **French Roots** that trains **responsible leaders.** Being a responsible leader means being able to see beyond *business as usual.* Responsible leaders are able to value **long-term benefits** over short-term profits; they are able to blend corporate performance with **employees' well-being.** To prepare its students for the world of tomorrow, ESSEC's pedagogy seeks to awaken and develop **creative and critical thinking,** together with **the learning-by-doing** method. Responsible leaders are those who can see the broader picture.

ESSEC is a **full ecosystem** at the crossroad of rigorous and relevant research, innovation, business and society. At ESSEC we believe in bringing research and companies into the classroom, we also believe that learning doesn't end with a degree: learning at ESSEC means becoming a **life-long learner** and joining a close-knit **community** of more than **69,000 Alumni** all across the globe.

Key figures

69,000 graduates worldwide

4 campuses in Cergy, Paris-La Défense, Singapore and Rabat — **+1** augmented digital campus

220 partner universities in 46 countries

31 double degree programs (24 international, 7 national)

169 permanent faculty of 37 nationalities including 23 Emeriti professors

24 learning and research chairs

+1000 partner companies

7,407 students in full-time undergraduate and graduate programs

40.75% international students — **+100** nationalities represented

86 PhD students

+100 student organizations

5,000 managers in executive education

CENTRALE SUPÉLEC

Romain SOUBEYRAN
Dean and President
of CentraleSupélec

Data are transforming our society and affect almost all sectors and domains of our modern world. Their exploitation offer tremendous opportunities in terms of addressing major challenges (environment, climate, energy, information, health) as well as creating new societal and economic value. This becomes feasible when the ability to reason, interpret and model complex data dynamics meets innovative methods for value creation and monetization. Mathematics, computer science and associated scientific domains drive these disciplines and are central to CentraleSupelec's engineering curriculum.

The Master in Data Sciences and Business Analytics is a world-wide example of harmonious integration of interdisciplinary sciences and business. Our aim is to go beyond understanding, interpretation and data exploitation. This unique program **blends excellence in sciences with excellence in business.**
Our unified curriculum provides the necessary foundations in both domains, creating a new generation of digital transformation leaders that are able to harness the extreme potentials of data assimilation in a

business value creation perspective. This objective can only be met through the highest standards of excellence in a highly interdisciplinary setting. Our unique longstanding partnership and deep collaboration with ESSEC Business school - one of the most renowned business schools world-wide - guarantees a highly complementary curriculum, endowed with courses and instructors of the most selective international standards. It offers an **outstanding quality program** at the intersection of data sciences and business analytics.

I am sure that this program will exceed by far your expectations and will have a tremendously positive impact on your professional career.

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Our world today is undergoing unprecedented changes. The digital revolution, massive data and globalization are real revolutions that raise huge challenges and expectations for society.

Businesses are looking for high-level scientific professionals who are true "integrator-innovators", able to pool wide fields of expertise, generate new solutions, initiate and bring about change with a strong sense of ethics, responsibility and civic engagement, particularly in the face of social and environmental concerns.

Today, CentraleSupélec has all the assets to meet the needs of 21st century companies and businesses:
- By training multidisciplinary engineers-entrepreneurs and experts in complex systems.
- By developing innovative responses to major technological, economic, social and environmental challenges through research.
- By enabling working professionals to acquire the skills they need to adapt to change and make their companies more competitive.

It develops its academic excellence and research through robust and fruitful cooperation with major national organizations such as CNRS, CEA, INRIA, INSERM and ONERA.

RANKED AMONG THE BEST UNIVERSITIES IN THE WORLD:

6TH worldwide for employer reputation.

9TH in the world for institutions under **50** years of age.

13TH worldwide at ARWU.

1ST worldwide on Mathematics at ARWU.

CentraleSupélec has a network of 45,000 active graduates in all sectors around the world.

CentraleSupélec is a founding member of the Paris-Saclay University, the T.I.M.E. network, the Alliance 4Tech, a strategic partner of ESSEC Business School and president of the École Centrale Group.

WITH ITS INTERNATIONAL COVERAGE ACROSS 4 CAMPUSES (PARIS-SACLAY AND BEIJING), CENTRALESUPÉLEC ACCOUNTS FOR:

- 4,200 students and 370 professors and researchers interacting with its international network.
- 600 doctoral students in 16 laboratories and research teams.
- 3 schools abroad (China, India and Morocco) and 5 associated international laboratories (Brazil, Canada, United States and China).
- 176 foreign partner universities.
- 140 partner companies.

A MAJOR INSTITUTION OF INTERNATIONAL STANDARD

Ranked among the 200 best universities in the world by QS, CentraleSupélec has a network of 176 partner universities in 45 countries, 80 double-degree agreements, 30% foreign students, 24% foreign professors and a network of 45,000 men and women working on all continents.

Like the best higher education institutions, CentraleSupélec is continuously developing its presence in the major countries of the future: In 2005, École Centrale Paris, with the École Centrale Group over which it presides, became the first major French engineering school to export its educational model abroad with the creation of École Centrale Beijing in China.
In 2015, École Centrale Casablanca was launched in Morocco.
The School also implements an active policy of partnerships with academic and research institutions worldwide, with 5 associated international laboratories (China, United States, Singapore and Canada).

Thus, CentraleSupélec is building a worldwide group of interconnected schools and laboratories, which will continue to expand.

Welcome to CentraleSupélec!

EDITO

An intelligent use of data nowadays forms the core of business decisions and constitutes the driving force of the societal and economic evolution of the years to come. It is probably one of the most important topics of our days. Analysts estimate that data-related businesses generated billions of dollars in recent years, and will generate much more in the years to come.

The growth in job opportunities is tremendous: companies and organizations will need a couple of hundred thousand data scientists and business analytics leaders in the next few years. Moreover, the exponential growth in content-generation will bring about a huge need for highly qualified individuals with an **in-depth knowledge and a global understanding** of the technological and business challenges underlying the AI and digital revolution era.

Recent business studies converge to an estimated need of educating several million data scientists and leaders within the decade to come. This is why two prestigious French Grandes Écoles ESSEC Business School and CentraleSupélec have partnered to propose this very innovative and complete program. We believe that **truly innovative leaders must be both business savvy and erudite in data sciences.** Hence we propose a unique program where students learn and combine the key skills in innovation and wealth creation that companies will increasingly require.

This master is for students who are committed to a deep understanding of data sciences and the methods of business analytics, who aim to develop strong skills in mathematical modeling and computer science as well as management savviness.

Fragkiskos MALLIAROS
Academic Co-Director,
PhD in Computer Science,
École Polytechnique (France),
Professor of Data Science,
CentraleSupélec

Guillaume CHEVILLON
Academic Co-Director,
D.Phil. in Economics, University of Oxford (UK),
Professor of Econometrics & Statistics,
ESSEC Business School

Nikos PARAGIOS
Academic Co-Director,
D.Sc. in Electrical and Computer Engineering,
UNSA & INRIA (France),
Professor of Applied Mathematics & Computer Science,
CentraleSupélec

Roberto RENO
Academic Co-Director,
PhD, Scuola Normale Superiore di Pisa,
Professor of Econometrics & Statistics,
ESSEC Business School

Abdelmounaim DERRAZ
Executive Director,
Master in Modeling, Finance & Data Science,
Telecom Paris,
Data Science Sr. Manager
Ex-Ekimetrics

AN INNOVATIVE AND HYBRID PROGRAM

ESSEC-CentraleSupélec Master in Data Sciences & Business Analytics program combines faculty resources of two of the most prestigious Business and Engineering Schools in Europe. The program provides students with a comprehensive view of these complementary and intrinsically linked fields with an intensive full-time format:

- International Field Trip
- Up to 25 advanced elective courses taught by internationally renowned faculty
- Internship/professional experience
- Masterclasses & seminars
- Hackathons
- 6 month Corporate Research Project

Key facts

Awarded by **2** prestigious European institutions	Est. **2014**	**2** countries: France (Paris area) Singapore
Taught in **English**	**1** or **2** years	DIPLÔME CONFÉRANT GRADE DE MASTER CONTRÔLÉ PAR L'ÉTAT
Intake in **End of August**	**3** majors: Data Sciences Business Analytics AI & Digital Strategy	**Master** degree **accredited** by the French Ministry of Higher Education, Research and Innovation
Fully **hybrid** between Business & Engineering		
Master in Data Sciences & Business Analytics ranking worldwide #3 QS		**3** partnerships: Columbia University HKUST UC Berkeley

AN ALLIANCE OF EXCELLENCE CENTRALESUPÉLEC & ESSEC SAVOIR-FAIRE

EXPERTISE IN DATA SCIENCES

Created in 1829, CentraleSupélec has developed an expertise in the field of data based on the intersection of mathematics and computer science. Sustained by two teaching departments (Mathematics & Computer Science) and three CentraleSupélec laboratories of excellence (CVN, MICS, LSS), this program offers a complete curriculum around Data Sciences in order to research mathematical models and their computer solutions for structuring, interpreting and understanding massive data processing with an emphasis on machine learning, optimization, computer vision and biomedical image analysis. This training is part of CentraleSupélec's global strategy to strengthen its position in the field of Data Sciences by taking key positions in theoretical research and major verticals: Digital & Health.

EXPERTISE IN BUSINESS ANALYTICS & DIGITAL STRATEGY

For over forty years, ESSEC has been a pioneer in the development of a scientific approach to management. Since its establishment in 1907, ESSEC has trained generations of students, fostered research and helped firms develop and prosper. Recently, ESSEC Business School created several Centers of Excellence to further enhance its production of knowledge and solutions. Students therefore have access to a wide range of conferences, interactions with practitioners and researchers from different sectors, and training by partner companies. The Master in Data Sciences & Business Analytics is particularly involved with Centers of Excellence & Research (computer vision, machine learning & optimization, biomedical image analysis), modules (Financial analytics, Advanced FinTech, Entrepreneurship...).

TO ENSURE AN EFFECTIVE AND RESPONSIBLE USE OF DATA

For a global understanding of the technological and business challenges underlying the digital evolution era and to master the science of data and the techniques of business analytics, the program has a strong analytical focus and aims to provide students with a comprehensive view of these complementary and intrinsically linked fields enabling them to develop and become fully-operational professionals. The program takes place on ESSEC campuses (Paris area & Singapore), and on CentraleSupélec campus (Paris area).

3 MAJORS/ 2 MINORS FOR A STRONG EXPERTISE

To tailor the program to your needs and goals and to ensure scientific expertise and data savviness, the program is hybrid between Data Sciences, Business Analytics & Digital Strategy. Electives are tailored to each student's specific career goals; these excellence elective courses are highly specialized in content and address recent trends and challenges.

To ensure a complete curriculum, students are required to follow courses in both Data Sciences and Business Analytics. It is possible to decide on a curriculum that is balanced across fields, or major in Data Sciences, Business Analytics or Digital Strategy. All courses can be combined at will.
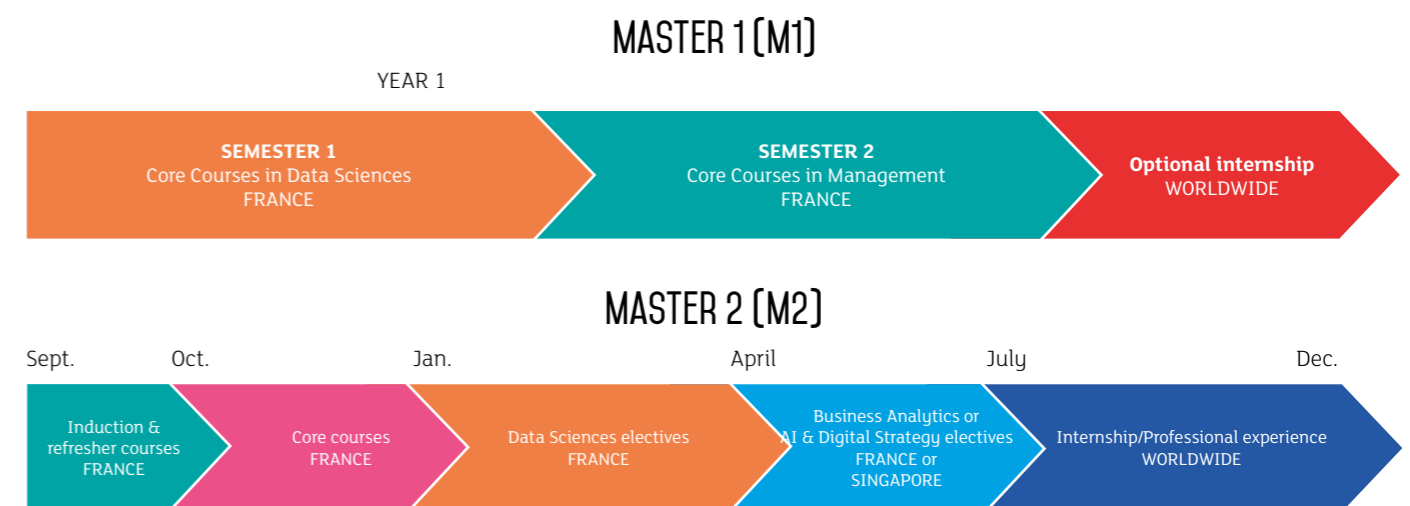
3 MAJORS
- Data Sciences
- Business Analytics
- AI & Digital Strategy

2 MINORS
- Data Sciences
- Business Analytics

PROGRAM CALENDAR

MASTER 1 (M1)

YEAR 1

SEMESTER 1 Core Courses in Data Sciences FRANCE	SEMESTER 2 Core Courses in Management FRANCE	Optional internship WORLDWIDE

MASTER 2 (M2)

Sept.   Oct.   Jan.   April   July   Dec.

Induction & refresher courses FRANCE	Core courses FRANCE	Data Sciences electives FRANCE	Business Analytics or AI & Digital Strategy electives FRANCE or SINGAPORE	Internship/Professional experience WORLDWIDE

The duration of the Master in Data Sciences & Business Analytics is 2 years (Master 1+Master 2) or 1 year (Master 2 only), depending on your background and latest degree.

- A 3-Year Bachelor's Degree or a Licence 3 at the minimum: You will complete the program in **2 years (M1+M2).**

- A 4-year Bachelor's Degree or a Master Degree at the minimum: You will complete the program in **1 year (M2).** *If the admission jury finds that your background is strong but not complete enough in some required aspects, we may ask you to join the two-year program (M1+M2) instead in order to build up your strength and ensure your success.*

OFFICIAL MASTER DIPLOMA

The Master in Data Sciences and Business Analytics is accredited by the French Ministry of Higher Education, Research and Innovation, conferring its students with an official Master Degree diploma, and the possibility to apply to governmental financial aids, pursue doctoral studies afterwards, and extend their visa to apply for jobs in Europe.

CORPORATE RESEARCH PROJECT

During the Corporate Research Project M2 students work in groups on a dedicated case with a company. They have 1 day per week from January to June to build a solution that could be implemented by the company. The aim is first and foremost to help solve an issue that generates business value and that is in line with the company's strategy. It is custom to plan, towards the end of the project, a real test of the proposed solution in order to provide proof of value. Companies we've had as partners in the CRP historically: L'Oréal, Sanofi, Société Générale, BNP Paribas, Cofidis, Accor, Transvalor, Deloitte, Sia Partners, Vestiaire Collective, Veepee, Sienna, Ecotable, Quantcube, Deriv, Vrailexia etc.

INTERNATIONAL FIELD TRIP

The International Field Trip is a one-week trip in M2 to meet key actors, local professionals and business leaders all over the world, and confront students' knowledge to best practices and emerging applications of analytics developing in other countries. They may travel to Dublin, Stockholm, Tallinn, etc.

HACKATHONS

Each year (M1 & M2), students will complete and validate a Hackathon - project spread over a few days organized and monitored together with a partner company- requiring innovative ideas for analyzing and visualizing data. Hackathon partner companies are Ekimetrics (M1) and Eleven Strategy (M2).

PROGRAM PARTNERS

Dual degree ESSEC | CentraleSupélec and Columbia University
ESSEC I CentraleSupélec and Columbia University dual degree is a two-year program where students study one year at ESSEC I CentraleSupélec and one year at Columbia University. Upon completion, students will be awarded two degrees: the Master in Data Sciences & Business Analytics from ESSEC I CentraleSupélec and the MS degree in Business Analytics from Columbia. After studying the first period at ESSEC | CentraleSupelec, students who wish to participate in the dual degree must submit an application in January and will go through a pre-selection process run by ESSEC I CentraleSupelec. The final selection will be made by Columbia University. Students will pay tuition and fees each academic year to the Institution where they are enrolled.

International exchange with The Hong Kong University of Science & Technology (HKUST)
Master in Data Sciences & Business Analytics' students can apply to go on an exchange at HKUST (Master in FinTech or Master in Information Systems Management) for approximately two months during Term 3 depending on available places. Students can therefore enrich their international experience even further.

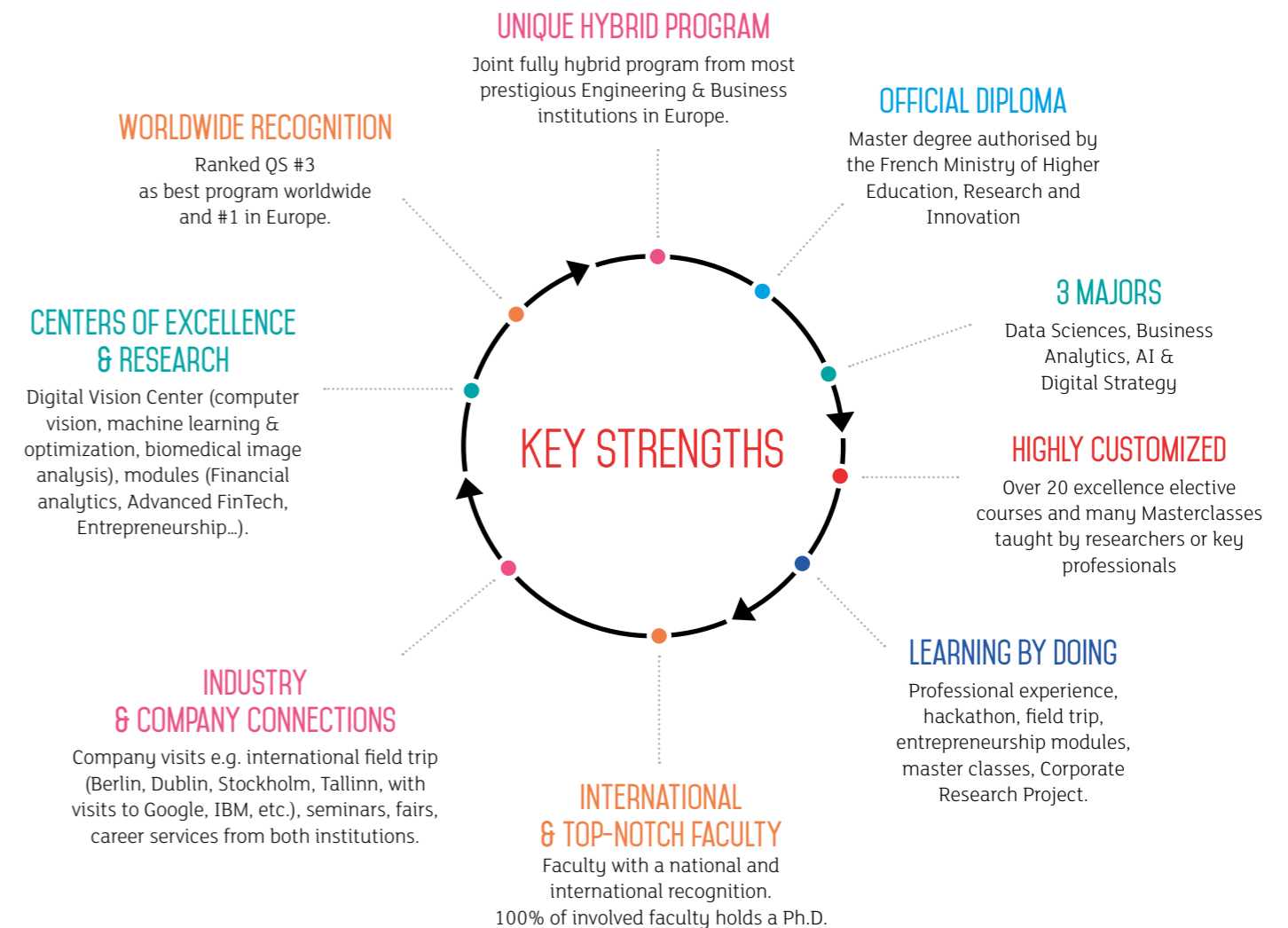**Dual degree ESSEC and University of California, Berkeley**
This partnership will permit students with a scientific background to complete the Master of Engineering from UC Berkeley after the completion of the Master in Data Sciences & Business Analytics.

CAMPUS IN PARIS

A Master in Data Sciences & Business Analytics dedicated campus is available for the DSBA students in Paris. Located at the crossroads of the 14th, 15th and 6th Arrondissement, it will host the first term for M1 students, and the majority of the courses for M2 students. This campus presents an opportunity for DSBA students to have their own locale, and a place where the cohort can work, participate and organize events. ESSEC and CentraleSupelec campuses will still be accessible for students.

MILESTONES

KEY STRENGTHS

UNIQUE HYBRID PROGRAM
Joint fully hybrid program from most prestigious Engineering & Business institutions in Europe.

WORLDWIDE RECOGNITION
Ranked QS #3 as best program worldwide and #1 in Europe.

OFFICIAL DIPLOMA
Master degree authorised by the French Ministry of Higher Education, Research and Innovation

3 MAJORS
Data Sciences, Business Analytics, AI & Digital Strategy

CENTERS OF EXCELLENCE & RESEARCH
Digital Vision Center (computer vision, machine learning & optimization, biomedical image analysis), modules (Financial analytics, Advanced FinTech, Entrepreneurship…).

HIGHLY CUSTOMIZED
Over 20 excellence elective courses and many Masterclasses taught by researchers or key professionals

LEARNING BY DOING
Professional experience, hackathon, field trip, entrepreneurship modules, master classes, Corporate Research Project.

INDUSTRY & COMPANY CONNECTIONS
Company visits e.g. international field trip (Berlin, Dublin, Stockholm, Tallinn, with visits to Google, IBM, etc.), seminars, fairs, career services from both institutions.

INTERNATIONAL & TOP-NOTCH FACULTY
Faculty with a national and international recognition. 100% of involved faculty holds a Ph.D.

A UNIQUE HYBRID CURRICULUM

YEAR 1 (MASTER 1, M1)

Depending on your background and latest degree, you will start the program in M1 and the total duration of the program is 2 years (M1+M2).

To build up your strength and help you build your foundations, you will begin the program with a first period of foundations in Management, Mathematics, Statistics and Computer Science.

During the second period, you will follow core courses on the same fields, and a hackathon organized by Ekimetrics and Eleven Strategy. Through this first year, you will be able to discover your professional interest, to help you decide on which major to choose in Year 2 (M2).

1ST PERIOD, FOUNDATIONS

AT CENTRALESUPELEC PARIS CAMPUS		
Mathematics, Statistics and Computer Science		Management
• Analysis • Probability & Statistics • Linear Algebra	• Algorithms • Python • Introduction to Databases	• Business Cases • Introduction to Corporate Finance & Accounting

2ND PERIOD, CORE COURSES

AT ESSEC BUSINESS SCHOOL		
Mathematics, Statistics and Computer Science	Electives	Management
• Introduction to Econometrics • C++ • Statistical Inference • Optimization	• Management control • Corporate & Tax Law • Game Theory • Entrepreneurship • Environmental Economics • International Economics • French as a Foreign Language • Competitive Advantage in the age of AI • Head of Data 101 • Predictive Analytics • Introduction to Machine Learning	• Principles of Finance • Managing IT in the Digital Age • Business Economics • Strategy and Management • Data-driven Marketing • Ethics & Decision Making
Hackathon		
Ethics Seminar		

3RD PERIOD, HANDS ON FIELD EXPERIENCE

WORLDWIDE
3 month internship (optional)

YEAR 2 (MASTER 2; M2) AT ESSEC FRANCE, CENTRALESUPÉLEC FRANCE, AND ESSEC ASIA-PACIFIC (SINGAPORE)

Depending on your background and latest degree, you will start the program in M2 and the total duration of the program is 1 year (M2), or you will continue with the second year of the program (M2) if you started in M1.

This year (M2) is divided into two academic periods to master the science of data, and the techniques of business analytics and digital strategy. Courses are tailor to your specific career goals while being highly specialized in content and addressing recent trends and challenges.

1ST PERIOD, FOUNDATIONS

AT CENTRALESUPELEC PARIS CAMPUS		
Refreshers & Induction		
• Team Building and Leadership • Business and Society Seminar • Fundamentals of Digital Business	• Negotiation Seminar • Financial Accounting • Cost Analysis	• Mathematics • Statistical Methods • Programming & Languages • Principles of Management
Core courses		
• Big Data Algorithms, Techniques and Platforms • Foundations of Optimization	• Foundations of Machine Learning • Forecasting & Predictive Analytics • Foundations of Deep Learning	• Big Data Analytics • Marketing Analytics

2ND PERIOD, CHOOSE AT LEAST A MAJOR (4 COURSES) AND A MINOR (2 COURSES)

AT CENTRALESUPELEC PARIS CAMPUS	
Major/Minor in Data Sciences	
• Geometric Methods in Data Analysis • Machine Learning in Network Science • Foundations of Deep Learning • Reinforcement Learning	• Graphical Models • Advanced Deep Learning • Natural Language Processing • Distributed Optimization and Computing • Ensemble Learning

AT ESSEC BUSINESS SCHOOL	IN SINGAPORE AT ESSEC BUSINESS SCHOOL
Major/Minor in Business Analytics	Major in AI & Digital Strategy
• Quantitative Risk Management • E-Business Strategy & Operations • Supply Chain Analytics & Tools • Business Intelligence • Financial Econometrics • Financial Markets • Trading, Digital transformations of markets, & Fintech • Entrepreneurship for Data-driven initiatives • Case Studies in Predictive Analytics • Decision Analysis	• Project Management for Digital Initiative • Cyber Security • Digital Marketing Strategy • Strategy and Management • Asian Economies • Decision Analysis
Hackathon	
Corporate Research Project (January-June)	
International Field Trip	

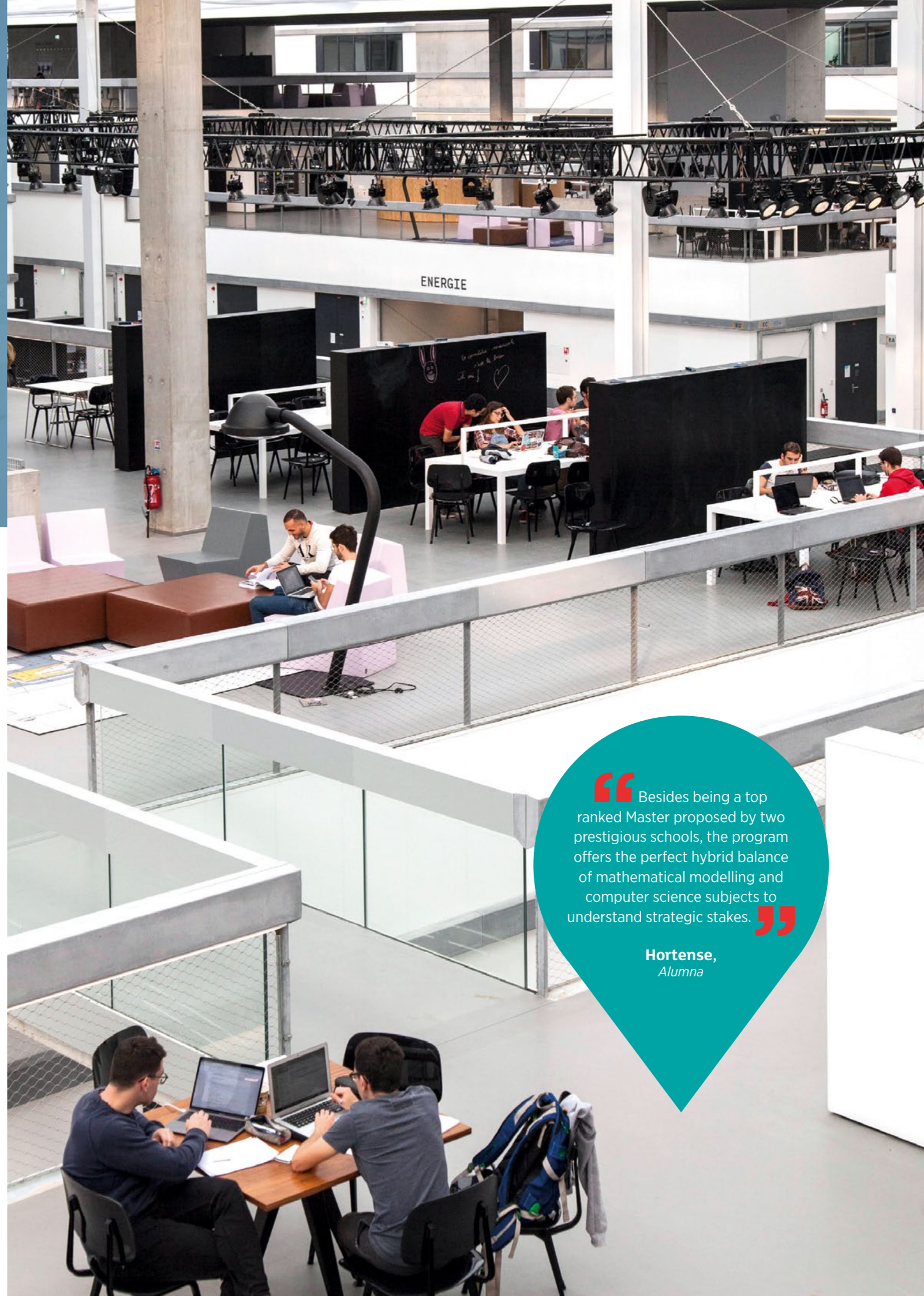### 3RD PERIOD, HANDS ON FIELD EXPERIENCE

WORLDWIDE
4 to 6 months internship or Professional Experience

> *Alumni network is very active. It is a great advantage to be able to contact the right people in a company.*
>
> **Regis, ESSEC Graduate**
> *Software Engineer at Vision Objects*

© Sergey Nivens

ENERGIE

HELPING YOU GET STARTED

CAREER SUCCESS CENTER SERVICES

ESSEC Business School and CentraleSupélec provides ongoing career guidance and support to students and graduates in order to help them find and pursue their chosen dream career:

- Interview and CV workshops as well as individual career orientation and guidance.

- Recruitment fairs with around 430+ corporate partners from the business world, focused on a certain sector or career aspiration i.e. working in consulting, a start-up, in Finance or working for an international company.

- Regular meet-and-greets with businesses (CEOs / HR managers, founding partners, etc.).

- Career Portal: 17,000 exclusive job postings: internships, apprenticeships and jobs.

- Online student CVs made readily accessible to hiring companies (some 2,500 per year).

2 POWERFUL WORLDWIDE NETWORKS

Enrolling in the Master in Data Sciences & Business Analytics makes you a member of both the ESSEC Business School and the CentraleSupélec global alumni communities.

As a student and graduate you are able to leverage this significant network as alumni stay involved and in touch with each other and the schools. As well as sharing their experience with students, they also organize all over the world via the various local chapters, conferences, round tables, brainstorming sessions, get-togethers, etc.

> *Besides being a top ranked Master proposed by two prestigious schools, the program offers the perfect hybrid balance of mathematical modelling and computer science subjects to understand strategic stakes.*
>
> **Hortense,**
> *Alumna*

69,000
ESSEC Business School alumni

55,000
CentraleSupélec alumni

FIND THE RIGHT CAREER

WHERE THE DEGREE CAN TAKE YOU

These fields of expertise are complimentary, intrinsically linked and key to understanding the opportunities that come with this surge of big data.

🔺 **Business Analysts** focus on business applications and are called upon by companies to identify challenges and evaluate risk, and propose data driven solutions.

🔺 **Data Scientists** on the other hand focus more on computer science and are involved therefore in creating solutions to the problems at hand. Harvard Business Review moreover crowned data scientist as the sexiest job of the 21st century.

🔺 **AI and Digital Strategists** focus on leading the strategy of businesses in order to ride on the digital wave.

As business analytics, data sciences and digital strategy are widely applied across the business world, there is a growing demand for data-driven leadership in every industry and from start-ups to huge multinationals.

With the digital age, it is no longer not just internet pure players that are faced with a growing amount of data produced by daily operations. Indeed, all companies have understood that they need to act so as not to lose their competitive edge and are therefore contending to hire these profiles.
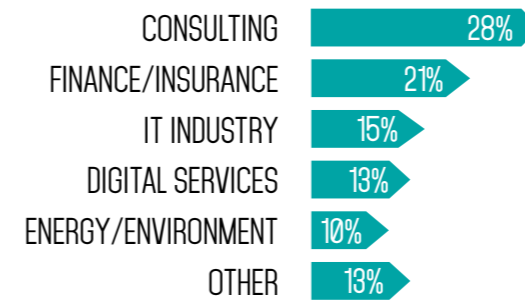
RECRUTING COMPANIES

- Airbnb
- Allianz Real Estate Gmbh
- Amazon
- Artefact
- AXA Investment Managers
- Balderton Capital
- Boston Consulting Group
- Dassault Systemes
- Deliveroo
- Deloitte
- Ekimetrics
- Électricité de France
- Flink
- Goldman Sachs
- Google
- IBM
- JP Morgan Chase
- Kaiko
- McKinsey & Company
- Meta
- PwC
- TikTok
- Uber
- Shift Technology
- Société Générale

HIGH LEVEL POSITIONS IN A WIDE RANGE OF SPHERES ANYWHERE IN THE WORLD

🔺 Management Consulting
🔺 Insurance
🔺 Finance
🔺 Audit
🔺 Healthcare & Biotech
🔺 Consumer Goods
🔺 e-Commerce
🔺 Internet pure-players
🔺 Media & IT
🔺 Automotive industries
🔺 Electronics
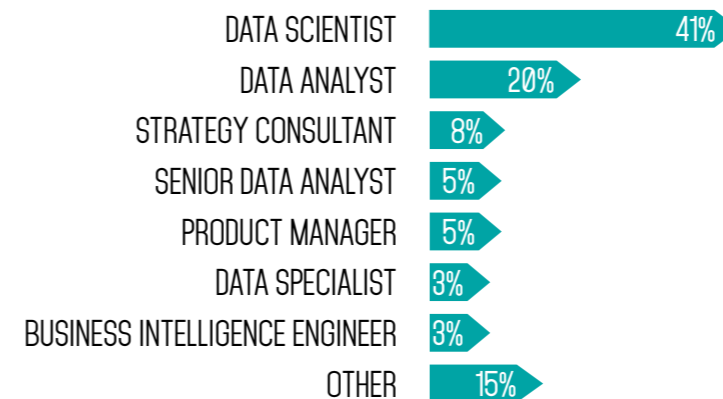🔺 Public Sector
🔺 Retail
🔺 Manufacturing
🔺 Start-ups

CAREERS AND ALUMNI AROUND THE WORLD

GRADUATES ASSUME HIGH-LEVEL POSITIONS IN VARIOUS ROLES ACROSS EUROPE, NORTH AMERICA, ASIA AND THE REST OF THE WORLD.

Sectors

Sector	%
CONSULTING	28%
FINANCE/INSURANCE	21%
IT INDUSTRY	15%
DIGITAL SERVICES	13%
ENERGY/ENVIRONMENT	10%
OTHER	13%

Functions

Function	%
DATA SCIENTIST	41%
DATA ANALYST	20%
STRATEGY CONSULTANT	8%
SENIOR DATA ANALYST	5%
PRODUCT MANAGER	5%
DATA SPECIALIST	3%
BUSINESS INTELLIGENCE ENGINEER	3%
OTHER	15%

82% found their first job before graduation

95% found their job within 3 months of graduation

100% found their job within 6 months of graduation

87% have an international-oriented job

36% work outside their country of origin

WHO CAN APPLY?

The Master in Data Sciences & Business Analytics is a highly selective program designed for high-potential candidates holding (or currently pursuing) a strong bachelor or a master's degree in Engineering, Sciences, Business or Economics.

Applicants should be academically excellent, open minded, internationally oriented, sensitive to the world around them and have leadership potential.

A 3-year Bachelor Degree or a Licence 3	You will complete the program in **2 years (M1+M2)**
A 4-year Bachelor Degree or a Master Degree	You will complete the program in **1 year (M2).** *If the admission jury finds that your background is strong but not complete enough in some required aspects, we may ask you to complete the program in 2 years (M1+M2) instead in order to build up your strengths and ensure your success.*

THE SELECTION PROCESS

Selection is based on an exceptional academic record as well as strong motivation to pursue the program.

- Online application file.
- Management aptitude test is required: GMAT, GRE or TAGE MAGE.
- English test is required: TOEFL, IELTS, Cambridge or TOEIC.

The English test is not required if the applicant is an English native speaker, has spent at least 3 years in an English-medium program or has lived or worked for at least 3 years in an English speaking country.

TYPICAL CLASS PROFILE

- **48-105** students
- Avg.age: **23** years old
- **22** countries represented
- **78%** international students
- **35%** hold degrees in Engineering or Sciences
- **58%** hold degrees in Economics or Management
- **7%** Other (Languages, Social Sciences…)
- **39%** woman
- **61%** man

> " The joint degree from ESSEC Business School and CentraleSupélec is one of a kind, giving the students access to world class universities, highly recognised in their specific fields. This is exactly what I was looking for, being in class with students from various backgrounds, all having a high interest in Data Science & Business Analytics. "
>
> **Vincent,** *Alumnus*
> *Data Project Manager, Acrelec*

THERE ARE SEVERAL ROUNDS OF ADMISSION PER YEAR

More about the Master in Data Sciences & Business Analytics
Discuss…

With an enrolled student on ESSEC Talk.
Refer to…

News, testimonies, financing your studies, admission process and schedule.
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