GENERAL ENGINEERING
AT THE HEART OF THE DIGITAL WORLD

100 INTERNATIONAL PARTNERS
11 MAJORS
23 DOUBLE DEGREES
A UNIQUE EXPERIENCE IN THE HEART OF EUROPE’S LEADING BUSINESS DISTRICT
Welcome to ESILV, the De Vinci Higher Education Engineering School situated in the heart of Paris-La Défense. ESILV offers high-level general engineering courses with a strong digital focus. The programmes incorporate a global outlook and proven project-based learning. Its reputation amongst employers speaks for itself. The school is located in the heart of Paris’s La Défense business district, and ESILV graduates excel in an array of sectors with their multidisciplinary, scientific and managerial digital skills, their thirst for innovation and their strong ethics.

Studying at ESILV means taking control of your own learning while surrounded by businesses which take an active role in the school’s teaching. The course provides countless opportunities to develop and broaden the scope of your learning: technical projects, majors, tracks, time abroad, double degrees, internships, and more. The school and its international network and network of corporate partners are here to help each student with each of their choices and the key moments of their engineering degree. ESILV and the two other De Vinci Higher Education schools - the EMLV business school and the IIM digital school - share a set of common values.

“A STRONG DIGITAL FOCUS, A GLOBAL OUTLOOK AND PROVEN PROJECT-BASED LEARNING”

Pascal Pinot
Dean, ESILV
A NEW GREEN AND INNOVATIVE CAMPUS

DE VINCI HIGHER EDUCATION IS PREPARING TO MOVE TO A NEW CAMPUS LOCATED ON TWO SITES IN NANTERRE, NOT FAR FROM LA DÉFENSE, EUROPE’S LEADING BUSINESS DISTRICT.
ENCOURAGING SOCIALISATION
The campus is built around a vast Agora, a public space surrounded by lecture halls, the Learning Centre, the Tech Room, classrooms, sports rooms, the literary café and access to the Park. The Agora is a space for living, sharing and working remotely, and will also host large events.

ONE CAMPUS, TWO SITES
The first structure to open on this new site in 2022 will be a 6,000 m² building located in the Jardins de l’Arche Paris-la Défense, just a short walk from the current Campus. These premises will be home to co-working spaces, a studio, project spaces designed for collaborative learning, outdoor terraces, a cafeteria, a lounge, and more.

AN INNOVATIVE ECOSYSTEM
The close proximity of the two sites will allow students from all four schools of De Vinci Higher Education to learn and grow in an innovation and knowledge hybridisation ecosystem thanks to the building design that promotes collaborative work, the very essence of all three schools (EMLV, ESILV, IIM) and the continuing education institute (ILV).

INCREASING INTER-SCHOOL COOPERATION
In line with the challenges of new forms of learning, the campus will offer students opportunities to continue to grow in an environment designed for new digital teaching techniques and skills hybridisation.

CLOSE TO LA DÉFENSE
The school is located in the heart of a vibrant business district that’s getting a new look, and the home of major international groups like Vinci, AXA, BNP Paribas and Groupama.

HIGH ENVIRONMENTAL QUALITY
The campus features green space that provides visual continuity with the neighbouring park. The building incorporates bioclimatic devices to reduce energy consumption (energy-efficiency, natural lighting and ventilation...) and its design guarantees overall performance meeting the strictest environmental standards. The building was designed and built in accordance with the BDF (Île-de-France Sustainable Building) certification approach.
TOMORROW’S SOLUTIONS TODAY WITH CROSS-DISCIPLINARY BOOT CAMPS

Every year, ESILV offers its students the chance to take part in educational Boot Camps focusing on environmental and societal themes such as:

- Enhancing biodiversity through digital technology
- Food sustainability and its impact on the climate
- Diversity in the world of work
- Low Tech: how to minimise the environmental impact of innovation
- Using artificial intelligence for the greater good

These Boot Camps give ESILV students the chance to work on cross-disciplinary team projects with fellow students from the management and digital schools. Each team has five days to design and present a creative solution to the given challenge.

Students are trained in collective intelligence, design thinking and agile project management, which are also used by businesses and organisations to foster societal and environmental innovation.

TRAINING RESPONSIBLE MANAGERS

ESILV integrates Ethical, Sustainable Development and CSR (Corporate Social Responsibility) concerns into all its teaching across the whole five years of study. ESILV’s aim is to train responsible, civic-minded engineers who will be able to align economic, technological, environmental and societal considerations in any future role, in any sector. The courses on offer at ESILV include: Professional Ethics, Engineering Ethics, Sustainable Development and Technology Challenges, Green IT, Corporate Social Responsibility, among others.

MEETING THE CHALLENGES OF A GLOBALISED WORLD

ESILV is a member of the Global Compact network. The UN Global Compact label recognises ESILV’s commitment to bringing its teaching and research in line with the principles promoted by

LEARN FROM NATURE, BECAUSE IT IS YOUR FUTURE.”

Léonard de Vinci

At De Vinci Higher Education, we are committed to placing environmental and societal concerns front and centre in our courses, our research and our interactions with the business world. We want to prepare our students to take an active role in making crucial changes to the world of business and society as a whole.

Students take part in cross-disciplinary Boot Camp weeks focusing on CSR or sustainable development.
Initiatives like these reveal our students’ search for meaning in issues like solidarity, education and the environment. Our students’ experiences in these extra-curricular activities form a backdrop for their academic studies, campus life, open-mindedness and societal commitment, and establish the value of our high-level Grandes Ecoles curriculum and making our graduates highly desirable to employers.”

Anne-Lucie Wack
Former President of the Conférence des Grandes Ecoles

CIVIC ENGAGEMENT AND STUDENT LIFE

Our annual Green Week is an important time for raising awareness on campus and is organised by the student sustainability society DeVinci Durable. Students can learn about practical ways to reduce the environmental impact of their day-to-day lives through educational workshops and games. Green Week has been commended by the Conférence des Grandes Ecoles (CGE), a national organisation of prestigious French higher education establishments. Another initiative promoting maritime transport, and organised by the Hydrovinci association, has also been praised by the CGE.

A CONSIDERABLE CHALLENGE

Whether or not they are specialised in sustainable development, engineers have a crucial role to play in stemming climate change and applying the principles of sustainable development in their day-to-day work.

A first-year Fab Lab workshop raises students’ awareness of local production modes, the Maker Movement and short distribution channels.
WHY
CHOOSE
ESILV?

3
UNDERGRADUATE COURSE GENERAL RANKING
LE FIGARO / L'ÉTUDIANT / L'USINE NOUVELLE RANKINGS

1
UNDERGRADUATE SCHOOL RANKINGS
/ L'USINE NOUVELLE

7
ENGINEERING SCHOOL RANKING
/ L'USINE NOUVELLE (+1 PLACE COMPARED TO 2020)
Studying at ESILV means choosing a general engineering school with a focus on the digital world, new technologies, hybridisation and innovation. It also means taking your learning into your own hands. The course provides countless opportunities to develop and broaden the scope of your learning: 11 majors, 23 double degrees including an Engineer-Manager degree with EMLV, a minimum of 13 months of internships, and more. Throughout their studies, students work on projects that reinforce and structure their learning and develop their skills as future engineers: Imagination and exploration Project, General Digital Engineer Project, Industrial Innovation Project, business challenges, etc.

Located in the Paris-la-Défense business district (Europe’s top business centre), ESILV enjoys an exceptional economic environment with companies in all sectors in close proximity, encouraging their involvement in our programmes: career plans, internships, Alternance programmes, job talks, forums, etc. This close partnership is an undeniable asset that helps our graduates find their first job quickly after graduating, with an average starting salary of €43,500.

ESILV’s students’ success does not depend solely on the quality of their scientific, technical and vocational training, but also includes a very strong human dimension through inter-school sharing, soft skills training, sports activities, clubs and societies. Each student is provided opportunities to grow as a person, to develop and apply new people skills, and to express their personality and realise their potential.

ESILV offers 11 lecture halls, 183 classrooms, 25 laboratories, 40 computer rooms, a co-working space at the Learning Centre, 5 sports rooms (weight training, cardio training, fitness, combat sports), a student residence and a music room. The school also benefits from the presence of a management school (EMLV) and digital school (IIM) within De Vinci Higher Education with which its students share courses, double degrees and joint activities.

Innovation is at the heart of teaching and research at ESILV. As well as the DeVinci Research Centre (DVRC), students have access to a modern infrastructure equipped with the latest technology (Bloomberg Suite, Fab Lab, DeVinci Innovation Centre (DVIC), technology laboratories, etc.) They learn by experimenting with innovative technology projects.
PREPARATORY CYCLE
A GENERAL COURSE TO ACQUIRE A SCIENTIFIC AND TECHNICAL GROUNDING

1 INTEGRATED PREPARATORY COURSE IN 2 YEARS

ENGINEERING CYCLE
PRE MASTER YEAR MASTER DEGREE IN ENGINEERING

11 MAJORS INCLUDING 8 AVAILABLE AS AN ALTERNANCE PROGRAMME

6 CROSS-DISCIPLINARY COURSES AVAILABLE AS WELL AS STANDARD COURSES
CURRICULUM
DIPLÔME INGENIEUR ESILV, GRADE DE MASTER

YEAR 5
- ENGINEERING INTERNSHIP (6 MONTHS)
  - FINANCIAL ENGINEERING
  - ACTUARIAL SCIENCE
  - FINTECH
  - IT, IOT AND SECURITY
  - DATA & ARTIFICIAL INTELLIGENCE
  - CYBERSECURITY & CLOUD COMPUTING
  - DIGITAL MODELLING & MECHANICS
  - INDUSTRIE 4.0
  - ENERGY & SUSTAINABLE CITIES
  - HEALTH ENGINEERING & BIOTECHNOLOGY
  - CREATIVE TECHNOLOGY ENGINEER

YEAR 4
- TECHNICAL INTERNSHIP (5 MONTHS)
  - FINANCIAL ENGINEERING
  - ACTUARIAL SCIENCE
  - IT, IOT AND SECURITY
  - DATA & ARTIFICIAL INTELLIGENCE
  - CYBERSECURITY & CLOUD COMPUTING
  - DIGITAL MODELLING & MECHANICS
  - INDUSTRIE 4.0
  - ENERGY & SUSTAINABLE CITIES
  - HEALTH ENGINEERING & BIOTECHNOLOGY
  - CREATIVE TECHNOLOGY ENGINEER

PRE MASTER YEAR: GENERAL AND DIGITAL CORE CURRICULUM WITH ELECTIVE UNITS

YEAR 2
- INTRODUCTION TO THE WORLD OF WORK INTERNSHIP (3 MONTHS)
- SCIENCE AND TECHNOLOGY CORE CURRICULUM

YEAR 1
- INTERNSHIP (1 OR 2 MONTHS/OPTIONAL)
- SCIENCE AND TECHNOLOGY CORE CURRICULUM

GENERAL BACCALAUREATE HIGH SCHOOL DEGREE, SCIENTIFIC SPECIALISMS

INTERNATIONAL (ACADEMIC EXCHANGE)

ALTERNANCE PROGRAMME AVAILABLE

© CPGE GRANDES ECOLES PREPARATORY COURSE, AND/OR UNDERGRADUATE DEGREE IN ENGINEERING OR COMPUTER SCIENCE
PREPARATORY CYCLE YEARS 1&2

THE INTEGRATED PREPARATORY CYCLE OFFERS STUDENTS SOLID LEARNING COMBINED WITH AN INTRODUCTION TO THE WORLD OF BUSINESS, LAYING THE GROUNDWORK FOR A COMPREHENSIVE GENERAL COURSE BASED ON TAILORED TEACHING THAT COVERS BOTH THEORY AND PRACTICE.

By choosing ESILV and its integrated preparatory cycle, I knew that if I worked hard, I was practically guaranteed to get my degree. I found it easy to settle into the course. The first year follows on naturally from the final year of high school, with some new skills, like teamwork for example."

Antoine Rivet
Actuarial Analyst at Generali / Class of 2019

FROM TEACHING, PROJECTS, AND DEVELOPING SOFT SKILLS AND WORKING METHODOLOGIES TO CONTINUOUS ASSESSMENT AND INTERNSHIPS, THE VARIED SYLLABUS OF THE INTEGRATED PREPARATORY CYCLE BUILDS A SOLID BASIS THAT IS CONSISTENT WITH THE ENGINEERING CYCLE.
A TWO-YEAR INTEGRATED PREPARATORY COURSE

The integrated preparatory course offers students a full-time general course that provides all the scientific basics, complementary optional modules and project-based learning. The cycle ends with an initial three-month internship, designed to familiarise students with the corporate world.

A COLLABORATIVE DYNAMIC

The integrated preparatory cycle differs from classic preparatory courses in the wide variety of subjects taught:

+ **Classes** (algebra, analysis, probability, algorithmics, system environment, databases, object programming, mechanics, electricity, thermodynamics, materials, etc.).
+ **Scientific and technical projects.**
+ **Cross-disciplinary approaches** soft skills, personal working methodologies, languages, communication tools, etc.
+ **Professional projects**, which encourage students to work as a team from the first year.

A collective dynamic prevails over the individual competitiveness and stress so typical of classic foundation courses. Not only the students at the top of the class get into the third year at ESILV - all you need to succeed is to work hard.

PROJECT MANAGEMENT IN MIXED TEAMS WITH EMLV AND IIM STUDENTS

First and second year ESILV students carry out joint projects with the two other schools (EMLV and IIM) in mixed teams, under the supervision of a permanent professor. Students are encouraged to develop project management skills and talents, and their ability to work together and understand how an organisation works. The projects carried out relate to societal issues (sustainable development, disability, etc.) or personal skills (creativity, communication, etc.).

THE ADVANTAGES OF THE INTEGRATED PREPARATORY COURSE

+ Scientific and technical grounding
+ Developing soft skills
+ Teamwork
+ Project-based learning
+ Cross-disciplinary classes with future managers (EMLV) and designers (IIM)
+ Mandatory sport
+ Curriculum tailored for high-level sportspeople and artists
+ Continuous assessment
+ 3-month internship

EQUIVALENCE

At the end of the second year, Université Paris Nanterre recognises the ECTS credits obtained at ESILV and validates the first two years of the Engineering Sciences degree.

A SPECIFIC COURSE FOR INDUSTRIAL AND SUSTAINABLE DEVELOPMENT TECHNOLOGIES AND SCIENCES (STI2D)

The two-year STI2D foundation cycle uses active and digital learning (flipped classrooms, learning by doing, etc.) to help students succeed and continue with their studies at ESILV.

STARTING IN FEBRUARY 2022

ReStart

AN ACCELERATED PROGRAMME FOR A LATER START DATE

ESILV offers an accelerated programme that lasts just one semester for first-year students who want to change course without losing a year of study. The 18 weeks of intensive classes run from February to mid-July.

The ReStart programme is available to all students who show full dedication to their work. It was a reassuring fresh start. My future seems clearer now.”

Agathe Soubiran
Fifth-year student engineer / Class of 2021
The Pivotal Third Year of General Engineering is the start of the Engineer Cycle. Students begin to formulate their career plans and define their profile through their choice of learning pathway.

“I love science and travelling, so I was looking for an engineering school with a strong international dimension. When I joined ESILV, I was able to combine these passions by completing a semester in Australia in my third year. My integrated foundation course grades earned me an excellence scholarship to study at UTS (University of Technology of Sydney), which is renowned for its science and technology faculty and its business school, where I was also able to take a finance class through my double Engineer-Manager degree programme with EMLV. I chose the Financial Engineering major in my fourth year.”

Valentine Biais
Class of 2021
START OF THE ENGINEER CYCLE

+ Acquiring new skills
Managing complex projects, statistics, digital analysis, object-oriented programming, corporate financial management. Individual involvement, project-based learning, active learning in small groups. Choice of scientific modules (electives) to personalise your course and help you find your path.

+ 20% of the programme is composed of cross-disciplinary classes. Soft skills, international openness, mandatory sport.

CHOOSING YOUR MAJOR AND BUILDING YOUR CAREER PLAN

+ Lecture and seminar cycle
The career of an engineer
Diversity and professional equality
Building your professional network
Engineering ethics

+ Choosing your major
Presenting the challenges, skills, sectors and professions for each major
Question/answer workshops with alumni, professors and professionals

+ Elective units
Elective units let students personalise their course to fit their career plan. They give each student the chance to discover or deepen their knowledge of certain subjects, widening the scope of their knowledge and skills.

INTERNATIONALISATION FROM THE THIRD YEAR

The international dimension is a big part of the engineering cycle. From the third year, student engineers get the opportunity to experience life abroad.

+ Academic exchange semester
Third and fifth year students can choose from a range of destinations, including: the USA, Spain, China, Italy, Ireland, Finland, Latvia, Canada, South Korea, Malaysia, Chile and the Netherlands. Students can also go abroad in groups with a scientific and soft skills programme defined by the school.

+ Double degree
Students looking to establish the international side of their profile can also spend the whole of their fourth or fifth year abroad to obtain a double degree.

A PERSONALISED WELCOME FOR STUDENTS STARTING IN THE THIRD YEAR

Students who join the school in the third year benefit from a specific welcome with extra classes given over a number of weeks. The classes are focused on IT, probability and statistics, and project management, but also look at electronics and mechatronics within the Fab Lab, and soft skills through public speaking.

AN AMBITIOUS YEAR-LONG PROJECT

THE PING PROJECT

ACTION, TEAM SPIRIT, COMMUNICATION AND CHALLENGES!
Each project provides scope for students to actively share their enthusiasm and determination.
The project is brimming with activities and challenges: elevator pitches, video competitions, a startup and investor jury, professional role-play presentations, project showroom: the high point of the year where all projects from every year get their own demonstration and exhibition stand.

ALL THE TEAMS TAKE PART IN THE COMPETITION AND NUMEROUS PRIZES ARE GIVEN OUT EVERY YEAR.

TWIZY CONTEST
/ FIRST PRIZE
With a project focusing on intelligent car parks, the ParkPing team won first prize and a €1,000 grant at a competition organised by Renault and Segula Technologies.

COUP2BOOST
/ FINALIST
The E-NERO team was chosen from among 400 projects by CAPGEMINI to compete in the final with its app paired with a smart connected shower with an integrated screen.
THEIR PATHWAYS ARE PERSONALISED THROUGH A NUMBER OF CHOICES, INCLUDING MAJORS, COURSES, PROJECTS, TIME ABROAD, INTERNSHIPS AND DOUBLE DEGREES.

DURING THE LAST TWO YEARS OF THE ENGINEERING CYCLE, EACH STUDENT ENGINEER HONES THEIR LEARNING PATHWAY AND CAREER PLAN.

After my third year at ESILV, when I spent six months studying abroad at Politecnico Di Torino, I joined the Energy and Sustainable Cities major, fully determined to change the world and work to further sustainable development and energy transition. As well as a technical vision and solutions to meet today’s environmental challenges, ESILV offers classes dedicated to ecology and the change management that will help better identify environmental actors and influencers. I’m now working as an Energy and Energy Efficiency Consultant Engineer at Citron, where I did my graduate internship.”

Corentin Lefort
Energy Consultant Engineer / Class of 2019

ESILV ENGINEERING SCHOOL DE VINCI
TWO YEARS SHAPED BY TEACHING, PROJECTS AND INTERNSHIPS

In the fourth year, students embark on more in-depth studies of their majors and take classes in English. They acquire the fundamentals of their chosen major, which they then develop in the fourth-year technology project. During the technical internship at the end of the fourth year (4 to 5 months), students apply their learning to complex technical work. The fifth-year teaching develops top-level expertise with a high added value.

The fifth year puts the student at the centre of the issues and challenges relating to their major and associated sectors. The industrial innovation project gives each group of students the chance to tackle comprehensive innovation projects and demonstrate their expertise and ability to run a project from start to finish.

The graduate internship, which very often leads straight to employment, rounds off the student’s five-year dedication and takes the form of genuine professional engineering work.

DIVERSE LEARNING PATHWAYS

During the fourth and fifth years, students can personalise their syllabus.

+ Complementary elective units
  Students can choose optional modules offered by ESILV or EMLV, giving them a chance to explore new themes and tomorrow’s industrial challenges including the luxury economy, social responsibility, business ethics, risk management, the art market, politics and energy, supply chain, opinion mining, Uberisation and the circular economy and theory U.

The corporate world and employability are present throughout the engineering cycle.

+ Professional seminars
  Fourth-year professional seminars provide a chance for student engineers to meet graduates who come to share their experiences of their academic path and talk about their jobs, to help future engineers to formulate their career plans.

+ Lectures and talks
  Business lectures and talks are held throughout the fifth year to help students as their careers begin. The Business Forum, which welcomes over a hundred companies every year, is a chance to talk directly to businesses.

HONE YOUR SOCIAL SKILLS

Classes on the theme of personal branding, as well as one-on-one help with finding an internship. The two years are shaped by pitches, presentations, teamwork and multidisciplinarity.

MAJORS CHOSEN BY STUDENTS

6

TRACKS AVAILABLE

100%

OF STUDENTS SPEND AT LEAST ONE SEMESTER ABROAD
WITH ONE FOOT IN SCHOOL AND THE OTHER IN THE BUSINESS WORLD, APPRENTICE ENGINEERS UNDERTAKE A PAID COURSE ROOTED IN REAL-WORLD EXPERIENCE.

• A degree recognised by the Commission des Titres d'Ingénieur (French Engineering Accreditation Committee)
• Eight majors: IT, IoT and Security, Data & Artificial Intelligence, Fintech, Industry 4.0, Digital Mechanics & Modelling, Energy and Sustainable Cities, Health Engineering and Biotechnology, Cybersecurity and Cloud Computing
• Personalised help looking for Alternance contracts
• Individualised supervision to maximise results: double business mentoring (business mentor)/school mentor
• A progressive Alternance programme that is suited to both learning and the corporate world: the time apprentices spend at work adapts to reflect their increasing levels of responsibility

THE APPRENTICE
• Employee status.
• Minimum salary calculated depending on the apprentice’s age and qualifications (between 41% and 78% of the French minimum wage).
• Tuition fees are paid for by the host company.

THE BUSINESS PARTNERSHIPS DEPARTMENT
The Business Partnerships team forges genuine links with the corporate world, developing partnerships with businesses in France and abroad. The team helps students with the job-finding process and puts them in contact with companies. It also collates and circulates Alternance contract offers.

ALTERNANCE FORUM
Partner companies visit De Vinci Higher Education or connect to a dedicated platform and hold recruitment interviews.

ALTERNANCE ORGANISATION
Apprentices divide their time between the school and the business (30 weeks in the first year, 32 in the second year and 38 in the third year). Alternance students spend two days at work and three days at ESILV. The progressive schedule of the Alternance programme is tailored for both learning and working.
A MULTIDISCIPLINARY PROGRAMME
+ Acquiring the basics in year 1:
  mathematics, IT, engineering sciences, languages,
  general studies, soft skills
+ Developing professional skills in years 2 and 3
+ A broad international and cultural outlook
+ Building your career plan
+ Teaching based on operational projects

WITH AND IN BUSINESSES
+ Over 70% of lecturers are from the corporate world
+ Working on real cases
+ 100 apprentices per year group with personalised supervision

TAILORED TEACHING
+ Inductive teaching (based on case studies)
+ Teamwork, project management, etc.
+ 80% of teaching carried out in the form of seminars, practical work, projects

After completing my science baccalaureate and a DUT diploma in IT, I chose to join ESILV for its engineer Alternance programme, the high quality of the American-style campus facilities and its proximity to Paris and the businesses in La Défense. After finding my host company DCX Technology, which is also in La Défense, I chose to study IT and the Data and Artificial Intelligence major, which coincided with the direction my work at the company was taking. For me, the Alternance programme doesn’t have any drawbacks: your tuition fees are paid by the company, the work is interesting, you gain three years of work experience… And a permanent contract to boot!"

Guillaume Lesieur
Associate Professional Application Designer / Class of 2018

For students with a DUT undergraduate diploma/BUT undergraduate degree, BTS undergraduate diploma or a Bachelor’s degree, the following specialisms* are compatible with the course:
mechanical and production engineering / IT / manufacturing process management / physical measurement / thermal engineering and energy / electrical engineering and industrial computing / industrial engineering and maintenance / civil engineering / materials science and engineering.

*Non-exhaustive list
11 MAJORS
TO PROVIDE SPECIALISATION INCLUDING 8 AVAILABLE ON THE ALTERNANCE PROGRAMME

- Financial Engineering P21
- Actuarial Science P22
- Fintech P23
- IT, IOT and Security P24
- Data and Artificial Intelligence P25
- Cybersecurity & Cloud Computing P26
- Digital Modelling & Mechanics P27
- Industry 4.0 P28
- Energy and Sustainable Cities P29
- Health Engineering and Biotechnology P30
- Creative Technology P31

6 TRACKS
TO TAKE YOU FURTHER AND OPEN THE DOOR TO CROSS-DISCIPLINARY CAREERS AND PROFESSIONS

- Research
- UX Design
- Business Engineer
- Startup
- International
- Innovation
The Financial Engineering major develops all the skills you need to learn about and fully comprehend the complexity of financial markets. It takes into account major trends in banking, asset management and hedge funds, such as high frequency trading, combined use of machine learning and the mathematics of randomness, and developments in risk management, which new financial directives have rendered increasingly complex.

**TEACHING**
- Financial mathematics
- Options theory
- Portfolio management
- Market risk
- Credit risk
- The new interest rate paradigm
- Algorithmic trading
- Model risk
- Simulation methods
- Machine Learning and data science
- Rules and regulations (Basel III)

**SKILLS**
- Mastering and managing risks relating to financial activities
- Mastering software widely used in the banking industry (Bloomberg, Matlab, R, C++, C#, VBA, Python)
- Mastering the new post-crisis financial context
- Mastering new banking regulations
- Mastering financial mathematics

**CAREER OPPORTUNITIES**
- Risk Manager
- Trader
- Quantitative Analyst
- Structurer
- Financial Market Data Scientist
- Hedge Fund Analyst
- Strategist
- Quantitative Portfolio Manager
- Financial Engineer
- IT Commando
- IT Quant

**A TRADING ROOM AVAILABLE**
Students can use a real trading room equipped with fifteen Bloomberg terminals, the main financial tool used in trading rooms and most management companies and large businesses.

Students can also give their CVs a real boost by obtaining Bloomberg certification and taking the Bloomberg Aptitude Test.
Actuary regularly makes the top 10 best job lists (Forbes, Career Cast). Just like engineering, actuarial careers are rich and varied, as evidenced by the broad range of subjects taught and professions practised. Actuaries mainly work in insurance, banking and asset management, brokerage, consulting and auditing, supervisory authorities and even in some major industrial groups (mergers/acquisitions, employee benefit liabilities, remuneration). Regulatory, prudential and accounting changes in these sectors are driving businesses to constantly improve their risk management and modelling. The favourable employment market means that actuaries are increasingly sought-after for their capacity to assess financial, cyber and pandemic-related risks.

The Actuarial Science major aims to train Actuary Engineers to pursue a career in this dynamic sphere with classes focusing on professional expertise given by around 25 experts working in the field.

TEACHING
+ Mathematics for insurance and finance
+ Economics
+ Insurance law and compliance
+ Insurance accounting
+ Advanced probability
+ Big data and data analysis
+ Machine learning and deep learning
+ Solvency II/IFRS17 standards
+ Model building
+ Asset and liability management
+ Market finance, portfolio management theory
+ Life insurance, general insurance, reinsurance
+ Provisioning
+ Employee benefits liabilities
+ Catastrophe modelling

SKILLS
+ Learning actuarial methods
+ Mastering the legal, accounting and prudential context
+ Mastering the pricing and provisioning of insurance products
+ Mastering data science and big data tools
+ Learning to design and implement tomorrow’s insurance-based products
+ SAS, R, VBA and Python

#INSURANCE
#FINANCE #AUDITING
#CONSULTING
#STATISTICS
#DATASCIENCE
#RISKMANAGEMENT

TOP-LEVEL TRAINING AND A CRISIS-PROOF CAREER!
• Multidisciplinary teaching for varied careers
• Lots of potential for career progression
• Rapid recruitment after graduation with attractive salaries
• A profession of the future, working for the greater good: Data Science, the digital revolution, regulations, the global context… Actuarial science is constantly adapting to societal changes
• Five double-degrees, including four double-degrees to become an Engineer-Actuary with the Dauphine, EURIA, DUAS and ISUP Actuarial Science master’s degrees, (around twenty students every year). Possibility of obtaining a triple degree with EMLV.
• The course framework meets the standards imposed by the French Institute of Actuaries with close to 1,200 hours of classes, lectures and projects dedicated to actuarial science over two years.

CAREER OPPORTUNITIES
Actuarial Analyst; Statistical Analyst; Actuarial Consultant; Actuary Underwriter; Pricing; Product, Inventory and Reinsurance Actuary; Life Insurance; Employee Benefits and Pensions Actuary; Internal Auditor; Risk Manager; Asset and Liability Manager; IFRS17 Consultant; Financial Modelling Risk Manager; Data Scientist; Insurance Supervisor; Financial Auditor; AOCR (French Prudential Supervision and Resolution Authority) Controller.
MAJOR
FINTECH

A number of major legal and technical developments have radically changed the world of finance. Fintech companies have created a new industry that deploys technology to improve the financial sector. This major aims to train future engineers in all the innovative technology that is essential for evolving and innovating in businesses that are reinventing financial professions.

TEACHING
+ Machine learning and artificial intelligence
+ Data analysis - big data
+ Market finance
+ Banking and insurance economics
+ Cryptography
+ Blockchain
+ Digital currencies
+ Computer security
+ Finance app development
+ Mobile and web development

SKILLS
+ Designing, developing and administering blockchain solutions
+ Developing innovative financial apps
+ Mastering economic and financial models for banking and insurance
+ Mastering cryptocurrency challenges and technologies
+ Mastering the algorithms of machine learning and data analysis

CAREER OPPORTUNITIES
Blockchain Developer, Blockchain Architect, Cryptocurrency Trader, Data Analyst, Scientist, Insurtech Project Manager, Cryptocurrency Consultant, R&D Engineer, Banking Application Developer, Security and Cryptocurrency Engineer

#BLOCKCHAIN
#FINANCE
#BITCOIN
#IT #CRYPTOGRAPHY

A FLAGSHIP BLOCKCHAIN COURSE
Renowned research professor Cyril Grunspan helped ESILV become the first school to offer a comprehensive course on blockchain and bitcoin. The school also initiated the first academic research on the subject and is currently working on partner blockchain projects. ESILV’s fintech course has become a benchmark for all economic and institutional players in the field.
MAJOR

IT, IOT AND SECURITY

This major trains IT engineers with a solid grounding in security for systems and objects, from their design phase to their integration into the company ecosystem. With a view to tomorrow’s fully connected world, the major positions students as professionals who are entirely capable of rising to the challenges of the future posed by connected services, their longevity and their robustness. The course has been awarded a SecNumedu label by France’s Cybersecurity Agency, ANSSI.

TEACHING

+ Secure app development
+ Artificial intelligence & intelligent objects
+ Forensics
+ Networks and telecommunications
+ Embedded systems and systems architecture
+ IoT protocols and cloud and web services
+ Designing secure architectures
+ Data governance, regulation and GDPR
+ Penetration tests and audits
+ Cyber resilience and risk management
+ Cybersecurity governance
+ Developing secure apps

SKILLS

+ Automatically considering security in all innovation processes
+ Designing and deploying IoT services and architectures
+ Defining and implementing a security policy
+ Mastering the design and integration of cybersecurity solutions

CAREER OPPORTUNITIES

Hard & Soft IoT Engineer, Connected Product Project Manager, Security Engineer, Chief Information Security Officer (CISO), Risk Management Consultant, IoT Developer, Security Analyst and Auditor, IT Engineer, Mobile Technologies Engineer, IoT Security Architect

#CYBERSECURITY
#RISKMANAGEMENT
#CONNECTEDOBJECTS
#AI
#NETWORKS&CONNECTIVITY
#CYBERRESILIENCE
#SECURITYBYDESIGN

MAKER-HACKER CULTURE

The school has fostered a real maker-hacker and DIY culture in its societies and student projects. Students design and innovate around connected objects, AI and security in the Fab Lab, the Devinci Innovation Centre, the DaVinci Bot and DigiTeam societies, and various technical associations. For hacker culture aficionados, the DaVinciCode society brings hackers together for challenges, warzones and other CTFs, including the De Vinci Higher Education CTF: DaVinciCTF.

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#CYBERSECURITY
#RISKMANAGEMENT
#CONNECTEDOBJECTS
#AI
#NETWORKS&CONNECTIVITY
#CYBERRESILIENCE
#SECURITYBYDESIGN
Engineers who take this major are data and big data specialists, from collection, modelling and storage to analysis and interpretation. They work on artificial intelligence and data valorisation projects that will be central to all economic and industrial sectors in the years to come.

TEACHING
+ Machine learning and mathematics for data science
+ Deep learning
+ Data visualisation
+ Text mining and opinion mining
+ Predictive modelling
+ Relational databases and NoSQL
+ Developing advanced apps
+ Agility and IT project management
+ Cloud computing and data centres

SKILLS
+ Conducting, developing and managing an IT project
+ Designing and deploying big data solutions
+ Mastering big data development technologies and frameworks
+ Mastering data science and data visualisation algorithms and tools
+ Designing and implementing artificial intelligence solutions

CUTTING-EDGE INDUSTRIAL RESEARCH
This major is taught by research professors who are equally renowned in the fields of big data, AI and data analysis. They are involved in research chairs and partner innovation projects with major companies in the sector. Students benefit from excellent teaching that is in line with both the current job market and its future evolutions.
MAJOR

CYBERSECURITY & CLOUD COMPUTING

This major is for engineers undertaking the complete software development and runtime system cycle. It prepares students for the major cybersecurity and cloud computing issues that all businesses face.

TEACHING
+ Machine learning & data science
+ Cloud computing and data centres
+ Secure system design
+ Secure software design
+ Advanced software development
+ Operating systems management
+ Platform as a service
+ Infrastructure as code

SKILLS
+ Carrying out, developing and managing an IT project
+ Mastering the design and integration of cybersecurity solutions
+ Monitoring software solution runtime systems
+ Automatically considering security in all innovation processes

#CLOUD
#AI
#CYBERSECURITY
#DEVOPS
#DEVSECOPS

CAREER OPPORTUNITIES
Cybersecurity Engineer, Full Stack Developer, DevSecOps Engineer, Cloud Engineer, Security Solutions Integrator
MAJOR

DIGITAL MODELLING & MECHANICS

The Digital modelling & mechanics major trains engineers to devise, develop and design new complex products and systems, particularly in the aeronautical and automotive fields. It is based on modelling and digital simulation, which helps students to understand the complete digital design chain: interaction with the environment, digital modelling and tools, dynamic optimisation, multiphysics and multiscale approaches.

TEACHING
+ Computational simulation and modelling of structures
+ Composite materials and damage
+ Multidisciplinary and complex systems modelling
+ Turbulence and fluid mechanics
+ Computational aeroelasticity
+ Vehicle dynamics and transmission systems
+ Computer-aided design
+ Computational analysis and simulation
+ Avionics and systems control
+ Design and architecture of self-driving cars

SKILLS
+ Modelling and simulating behaviours of fluids and structures and their interactions
+ Modelling and optimising multiphysics systems
+ Studying and designing complex systems and products
+ Mastering scientific simulation and industrial software

HIGH-TECH LABORATORIES
Computer simulation software: 3Dexperience, CATIA, Abaqus, EnSight, ANSYS software suite, HyperWorks, ALTAIR software suite, Salomé platform, and more.
Analysis and production tools for energy, materials, fluid dynamics, composites, production and manufacturing.
A teaching chair with ALTAIR on system computer simulation.

CAREER OPPORTUNITIES
Design Engineer, Business Engineer, Measurement / Test Control Engineer, Consulting Engineer, Manufacturing Processes Project Manager, Aeronautical Engineer, Scientific Calculation Engineer, Modelling Engineer, Fluid Mechanics Engineer
MAJOR

INDUSTRY 4.0

The Industry 4.0 major trains engineers to design and implement modern industrial systems with native integration of digital revolution tools and technologies. Students will be able to work on industrial maintenance service or production sites or for industrial businesses of all sizes & from all sectors, in France and abroad.

TEACHING

+ Modelling and simulation for production and assembly lines and supply chains
+ Management, control and optimisation of processes and industrial data
+ Product lifecycle management
+ Lean management
+ Digital twins, IoT and connected factories
+ Virtual reality and augmented reality
+ Project management and innovation management
+ Digital technologies and additive manufacturing
+ Mechatronics and robotics
+ Artificial Intelligence and industry 4.0 tools

SKILLS

+ Implementing and managing modern industrial systems
+ Mastering production chain methods (e.g. lean)
+ Devising and designing the overall organisation of an industrial system: knowing how to model and design automated, robotised industrial production systems
+ Mastering digital technologies (using digital models, virtualisation, augmented reality, Internet of Things, AI, 3D printing)

#3DPRINTING #AI #AGILITY #INNOVATION #DIGITALTRANSFORMATION #ROBOTICS #COBOTICS #MECHATRONICS #CONNECTEDINDUSTRY

PREPARING THE INDUSTRY OF THE FUTURE

For a number of years, ESILV has been conducting research and development projects on important industry 4.0 themes in partnership with major industrial groups (Dassault Systemes, Arceo/Mittal, Altran/Capgemini Engineering): using artificial intelligence for aeronautical and automotive manufacturing, intelligent materials, additive manufacturing and mastering 3D printing technologies.

CAREER OPPORTUNITIES

Production Engineer, Quality and Maintenance Manager, Industrial Risk Engineer, Process and Methods Project Manager, R&D Engineer, 3D Printing Engineer, Cobotics Engineer, Digital Transformation Project Manager, Predictive Maintenance Engineer
MAJOR

ENERGY AND SUSTAINABLE CITIES

This major trains engineers in the design, development and governance of energy systems, smart buildings and sustainable cities. The course is based on getting to grips with energy issues, sustainable development and on three scientific cornerstones: physics and energy management, digital technologies, and modelling cities and buildings.

TEACHING
+ Computational fluid mechanics
+ Heat transfers
+ Renewable energy
+ Electrical grids
+ Smart grids
+ IoT for smart cities
+ Machine learning and data visualisation
+ Building information modelling (BIM)
+ Geographic information systems (GIS)
+ Building energy efficiency
+ Sustainable project management and change management
+ Energy markets and environmental management

SKILLS
+ Designing and implementing renewable energy solutions
+ Modelling the life cycle of buildings and cities
+ Mastering the technical, societal and economic issues relating to energy transition
+ Devising, designing and leading production and energy distribution systems

#ENERGYTRANSITION
#IOT
#RENEWABLEENERGY
#BUILDINGINFORMATIONMODELLING(BIM)
#SMARTCITY
#SUSTAINABLEDEVELOPMENT

A COURSE FOCUSING ON ENERGY TRANSITION AND SUSTAINABLE DEVELOPMENT

The Energy and Sustainable Cities major offers a chance to get involved in major sustainable development projects. By transforming the way we use digital technology, students combine innovation and technologies with a view to an ethical career centred on making our society more sustainable.

CAREER OPPORTUNITIES
Energy Efficiency Engineer, BIM Project Manager, Fluids and Environment Engineer, Renewable Energy Project Coordinator, Renewable Energy Project Manager, Embedded Systems R&D Engineer, Environmental Certifications Project Manager, Photovoltaic Data Analyst, Electromobility Consultant Engineer, CSR Coordinator
MAJOR

HEALTH ENGINEERING AND BIOTECHNOLOGY

This major trains engineers directly to evolve in the multidisciplinary ecosystem of medical technology. It uses teaching that combines life and human sciences, artificial intelligence and technologies, medical regulations and biotechnologies. Engineers taking this major are therefore positioned at the intersection between people, technology and medical professionals, and are at the heart of the digital transformation of the medical sector and biotechnologies.

TEACHING
+ Machine learning, artificial intelligence and big data
+ Artificial intelligence
+ Bioinformatics and neural engineering
+ Information systems and healthcare networks
+ Bioethics, standards and regulations
+ Signal and image processing
+ Optoelectronics and mechatronics
+ IoT and connected health
+ Health economics
+ Life sciences

SKILLS
+ Designing, developing and evaluating complex biomedical solutions
+ Mastering modelling and digital methods in biology and health
+ Managing technology projects in the field of health
+ Understanding medical standards and regulations

#TECHFORHUMANS
PROJECTS THAT HELP PEOPLE

Our students excel working on innovative projects that help people. The multidisciplinary scientific training combined with the available facilities (Fab Lab, IoT laboratory, deep learning computational server, etc.) help students design and develop prototypes that win recognition in major national competitions and lead to the creation of startups: custom orthopaedic supports, connected skin, artificial hands, using AI to help people with disabilities, physiotherapy aids, brain-machine interfaces, etc.

#DATA
#CONNECTEDHEALTH
#MECHATRONICS
#AI
#HUMAN

CAREER OPPORTUNITIES
Telemedicine and IoT Engineer, Health Information System Project Manager, Biostatistician Engineer, Medical Data Project Manager, R&D Engineer, Quality and Regulations Engineer, Product and Process Development Engineer, Medical Device Design Engineer, Life Sciences Data Scientist
This major trains students for a career as a Creative Technologist, which involves using cutting-edge technologies and knowledge to invent new products and uses. The cross-disciplinary course is a natural precursor to designing integrative and systemic solutions for various aspects of software or products. These engineer-designers lead teams across a company’s research & development, marketing and industrial production departments. They may also produce intellectual contributions such as patents or scientific publications. They develop disruptive technologies and integrate them into new visions of society or a new market. When they graduate, our students already have a sizeable project portfolio bolstered by various articles, scientific papers and, sometimes, patents. Our researchers and professors come from the world’s most prestigious universities, including Massachusetts Institute of Technology (MIT), Royal College of London and the École Polytechnique Fédérale de Lausanne (EPFL), as well as leading firms such as Google and Formlabs.

**SKILLS**
- Developing research and development activities
- Designing and manufacturing products and software
- Industrial production of products on a large scale
- Developing complex software and network architecture
- Product development mediation between R&D, marketing and production

**TEACHING**
- Creating a Kickstarter campaign
- Introduction to scientific research
- Developing disruptive innovation projects
- Designing and manufacturing in mechanics, electronics and new materials
- Artificial intelligence and mixed reality (VR/AR/XR)
- Developing biology and life sciences technologies
- IT and network architecture
- Advanced embedded system programming
- Marketing strategy, UX design and consumer behaviour

**CAREER OPPORTUNITIES**
Creative Technologist, Startup CEO/CTO, Research and Development Engineer, Product Engineer and Designer, Expert Innovation Consultant, Arts and Sciences Professions
Build Your Identity

Students carry out a technology project in each year of the course, which strengthens and structures their learning, encourages them to find solutions for technical problems or societal issues, and develops their soft skills.

The projects I carried out during my five years at ESILV helped me put the ideas I had studied in class into practice and to better understand the work of an engineer by exploring new technologies, project management, computer simulations, programming, and more.”

Neima Aboudou
Lead Engineer on assignment at RENAULT via SEGULA Technologies / Class of 2017

Find all the projects by theme and year online at www.esilv.fr
IMAGINATION AND EXPLORATION PROJECT (PIX)
Students in the first and second years work on Imagination and eXploration Projects (PIX). The aim of the first-year projects is to create a concrete mechanical system based on the same precise specifications given to all students: emergency response robot, wind turbines, mechanical robots, etc. In the second year, students are encouraged to develop an original idea based on current societal issues up to the proof of concept and prototype phases (sustainable development, connected objects, smart cities, disability, etc.).

GENERAL DIGITAL ENGINEER PROJECT (PING)
In the third year, students carry out a General Digital Engineer Project (PING). Supported by their technical and project management skills, students come face to face with the real world and submit their ideas for professional scrutiny in national and international competitions and challenges. The PING project takes the form of a year-long "creating my startup" role play and has a number of objectives: learning to present and defend a project, devising a business model, displaying tenacity, drive and pragmatism, and more.

INDUSTRIAL INNOVATION PROJECT (PI2)
In the fourth and fifth years, students carry out an Industrial Innovation Project (PI2), adding value through partnerships with businesses and associations, research publications, patents, competitions, contributions to knowledge, etc. They can also develop their own project with a view to creating a startup. These projects dedicated to innovation require student engineers to utilise their expertise and interpersonal skills: competencies from their major, the skills of a general engineer, mastering every facet of project management. Most of the projects are carried out in partnership with large companies such as Microsoft France, Veolia, Allianz, Macif, Decathlon, Cegelc, Devoteam, Oracle, Technip, Dassault Systèmes, Renault and Air France.

PROJECTS AND SOFT SKILLS
Working well as a team is one of the most important key performance drivers for a project. During the five-year ESILV course, the soft skills dimension is entirely integrated into the technical dimension. Each project is therefore supervised on two levels. In the fourth and fifth years, teams learn the MBTI method, which they use throughout the project to analyse their individual behaviour and the way they work in a team.

PROJECTS TO DEVELOP THE SKILLS AND ABILITIES OF FUTURE ENGINEERS: TEAMWORK, COMMUNICATION TECHNIQUES, LEADERSHIP, SOCIABILITY, ORGANISATION, AUTONOMY, SENSE OF PERSPECTIVE, CRITICAL THINKING, ADAPTABILITY
A “digital ecosystem” to help you acquire essential skills for your future: collaboration, communication, creativity, critical thinking and resilience.

\ A student portal where you can find all your course information: agenda, link to remote courses, attendance, class recordings, etc.

\ A distance-learning platform: DeVinci Online (DVO), for course content (modules, presentation, additional resources, quizzes and forums)

\ Zoom for live class sessions and online events

\ Teams for synchronous remote teamworking

\ Zoom Rooms and state-of-the-art equipment used to record and disseminate hybrid courses (synchronous in-class and distance learning)

\ Wooclap and Klaxoon for both in-class and distance learning interaction

\ Microsoft Office 365 suite for collaborative work

\ A social network for each school with Yammer or Discord!

De Vinci Higher Education is renowned for making digital technology central to its development strategy, in both its teaching approach and administrative management. Since the beginning of the academic year in September 2020, De Vinci Higher Education has invested extensively in new equipment. All rooms are equipped for hybrid classes, which involve synchronous distance and in-class learning. Our professors are trained in the use of these tools and in teaching 100% remotely and in hybrid mode.

At De Vinci Higher Education, we firmly believe that learning should be individualised. How? By redesigning the pace, learning space and interaction level of your online classes, as well as providing course content and resources that are suited to different learning styles and based on professional expertise.

Our courses rely on the principle of active and differentiated learning: your learning platform provides access to course content and comprehension quizzes both before and after classes, as well as recordings of your lectures and seminars, to allow you to learn at your own pace.

You can also test your digital skills through our partnership with PIX, a French government-owned startup. We can use your assessment level to customise your learning pathway.

We work with the biggest Edtech firms and train our professors to digitalise their class content to offer you a highly innovative learning experience that is tailored to your specific needs.

From gamified virtual visits, escape games and virtual scientific experiments to peer learning and online learning support, every year we road test new tools and teaching methods to stay at the cutting edge of digital learning and the latest trends in higher education.
NEED A REFRESHER COURSE?

Not to worry, you can find training on how to use your digital tools, as well as all tutorials and information, on your student portal:

\ Digital tool workshops available from day one
\ A student onboarding module on the DeVinci Online learning platform (DVO),
\ The Digital Learning Centre and IT Services portals

WELCOME TO YOUR CONNECTED CAMPUS!

RESOURCES & TOOLS

You have access to an array of online resources on a range of subjects (e-books, mainstream press, statistics, market research, academic reviews, and more). Over 100,000 resources await on the best academic databases!

SPACES & MATERIALS

You have access to a Learning Centre and two creative rooms, as well as premium audiovisual equipment to support your academic work and your creativity:

\ Learning Centre
A user-friendly space divided into modular, high-tech co-working spaces, open to everyone (students, Alternance students, lecturers, teachers, companies and partners)

\ Studio
A studio where you can film your projects and presentations in front of a green screen

\ Creativ Space
A creative bubble where you can work alone or as a team with creative equipment and a big screen
In the fourth and fifth years, each student can choose, in addition to their major, a course that leads to cross-disciplinary careers and professions. The Learning by Doing approach stimulates learning through action and experience.

Following a research immersion with the MIT Media Lab’s Responsive Environments group for my graduate internship, the DeVinci Innovation Centre (DVIC) suggested I undertake an IT PhD in the field of artificial intelligence (AI). The practices and methods taught at the Media Lab, which are now central to DVIC teaching, helped me choose the direction of my studies. I have therefore continued my work within this innovative research group on deep learning, a branch of modern AI, and more specifically on the new kinds of human-machine interactions (HMI) it makes possible.”

Yliess HATI
PhD student at the DeVinci Innovation Centre / Class of 2019
RESEARCH TRACK

Helping our students develop a research mindset and presenting them with scientific challenges.

The Research Track prepares students for academic research and PhDs as well as careers in the Research & Development departments of major businesses and in cutting-edge startups. During the fourth and/or fifth years, research students work on a research project suggested by DeVinci Research Centre research professors. They are immersed in the research team and acquire key research skills: managing an R&D project, compiling a scientific state-of-the-art review, carrying out experimental studies, mastering scientific communication.

BUSINESS ENGINEER TRACK

This track, taught at EMLV, aims to provide fifth-year students with commercial and managerial skills.

Students learn about business development strategy, negotiation and key account management. These future business developers implement their learning through business games and projects with partner companies to ground their knowledge in concrete experiences. The graduate internship gives students the chance to immerse themselves in their target professions: Sales Engineer, Business Manager, Commercial Engineer, Pre-Sales Engineer, Key Account Manager, etc.

A PRE-INCUBATOR WELCOMING ALL STUDENT PROJECTS

Devinci Startup helps students start a business. It provides a co-working space and advice during the early stages of the company’s life. Students receive coaching and get to meet with entrepreneurs and experts in a favourable ecosystem thanks to a network of over 500 entrepreneurs from ESILV, EMLV and IIM, and by working with the main incubators in the Paris region.

After taking the Financial Engineering major, I wanted to develop my own projects, so I chose the Startup Track. I received fantastic support from the teaching staff. I created Gopened with a student from EMLV, a Google Street View-certified agency.”

Maylis Gross
Founder of Gopened / Class of 2016
INTERNATIONAL TRACK

The English track offers a specific program for foreign students in the master’s cycle of ESILV’s engineering program.

It allows these members to have all their courses in English for all majors (with the exception of Actuariat, which is only available in French). The English track provides access to dedicated courses in French as a foreign language, culture and soft skills designed to facilitate the integration of foreign students.

UX DESIGN TRACK

This track, in partnership with IIM, puts design at the centre of new technologies to design connected objects, services or apps focusing on the user experience and suitability for new consumer uses.

It aims to give greater consideration to the final user when designing man-machine interfaces or products. Basic principles and standard methodologies will be studied during the course, as well as emotional experience and interaction design, usability engineering, motion design and prototyping methodology, and UX design. Students develop a project where they put a digital object they have created into practice to showcase and use their learning.
STUDENT ENTREPRENEUR

Students who choose this track can obtain the status of PEPITE student entrepreneur (ESILV is a member of PEPITE PON, a network of student entrepreneurs created by the French government), to help them develop an entrepreneurial project instead of completing an internship.

STARTUP TRACK

Because you aren’t born an entrepreneur, students who want to start their own businesses are supported throughout the project creation process and gradually learn to become entrepreneurs.

This programme is offered to fifth-year ESILV and EMLV students who already have a startup project under way, whether individually or with others. Students learn about the methodology behind creating a business, as well as its ecosystem, while working on their own entrepreneurial project. Meetings are held throughout the year with startup creators and professionals.

INNOVATION TRACK

The DeVinci Innovation Centre Innovation Track teaches students about technology transfers from academic research to innovative value creation and industrial production of a product. Students carry out three projects in collaboration with students from the Creative Technology major.

\ Technology expedition
Each student chooses a cutting-edge technology to experiment with and produce an introductory tutorial on. This work contributes to the development of the DVIC’s technology infrastructures, including helping to create new laboratories.

\ Innovation project
Students work on innovation projects that align with the vision of their associated innovation group. They help write scientific papers, file patents, create startups, and enter competitions and art exhibitions.

\ Quickstarter
Students design and develop a product for a real Kickstarter crowdfunding campaign in the Quickstarter category. Students learn to deploy the entire industrial process, including designing the product, negotiating raw materials and factory manufacturing, promotion, logistics and after-sales service.
TEACHING
The programme is designed to help students build their skills, step by step. During 2 to 3 hours (on average) of classes a week, in addition to their scientific and technical classes, students learn the fundamentals of management.

+ **In the first year:** fundamentals of management, marketing and accounting.
+ **In the second year:** business law; fundamentals of HR and management, strategic management.
+ **In the third year:** Lessons taught in English with a focus on deepening knowledge of marketing and management fundamentals, with an international slant.
+ **In the fourth and fifth years** students concentrate on a theme via the research dissertation and specialisation in one of EMLV’s main subject areas: Finance or Marketing – Business development. The graduate internship is co-validated by both schools and focuses on the work of an engineer-manager. At the end of their studies, students graduate from ESILV and EMLV (Bac+5 state degree conferring a master’s degree).

THE FIRST DOUBLE DEGREE OF ITS KIND
It is centred around:
+ A group bringing together three undergraduate schools, sharing the same campus
+ A five-year cross-disciplinary course
+ A strong desire to meet the needs of businesses looking for hybrid candidates with a broad range of skills to handle the impact of digital transformation

CAREER OPPORTUNITIES
Students are taught to direct their careers towards roles with a more managerial dimension, for example heading up a team, a project or a budget. **With the double degree, students enter the world of work with a comprehensive education and a solid understanding of the world of business.**

AVAILABLE AT UNDERGRADUATE LEVEL
Students join ESILV to become engineers and leave with a double skill set and a master’s degree from a management school. Students attend EMLV classes in parallel to the ESILV Engineer programme. Students gradually validate their course with an Engineer-Manager double degree.

ENGINEER-MANAGER
FOSTERING UNIQUE EXPERTISE

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BROADEN YOUR HORIZONS WITH TOP-LEVEL TRAINING

THE DOUBLE DEGREES OFFERED BY ESILV, IN PARTNERSHIP WITH OTHER SCHOOLS AND UNIVERSITIES, ALLOW STUDENTS TO ADD TO OR WIDEN THEIR INITIAL AREA OF EXPERTISE.

- ÉCOLE POLYTECHNIQUE - IP PARIS
  Master’s in Data Science Mathematics and Applications

- CENTRALESUPÉLEC
  (various master’s)

- IIM
  DIGITAL SCHOOL DE VINCI PARIS
  Master’s in Digital Transformation Management

- GRENOBLE ÉCOLE DE MANAGEMENT
  Higher education degree in management (Grande École Programme - Digital Marketing Factory Track)

- UNIVERSITÉ DE BRETAGNE OCCIDENTALE
  Master’s in Actuarial Science

- SORBONNE UNIVERSITÉ - ISUP
  Master’s in Actuarial Science

- UNIVERSITÉ DE STRASBOURG - DUAS
  Master’s in Actuarial Science

- DAUPHINE PSL
  Master’s in Actuarial Science
Thanks to our network of partner universities, students can pursue their personal and professional ambitions by studying abroad. Every year, new rigorously selected partners broaden students’ options with courses relating to the majors taught at ESILV.

INTERNATIONAL EXPERIENCE IS MANDATORY FOR THE ENGINEERING CYCLE

You must spend time abroad to obtain an ESILV engineering degree. From the third year, students can choose to spend a semester on an academic exchange in one of De Vinci Higher Education’s partner universities, or do an internship (in the fourth or fifth year).

The exchange agreements differ depending on the year. Students can go on an academic exchange in the third and fifth years.

In the third year, students study in a partner university that offers a programme that is equivalent to the ESILV programme. Students who start ESILV in the third year can choose to go abroad in the third year (in the second semester) or in the fifth year for a semester-long academic exchange.

Time spent abroad in the fifth year aligns with the theme of ESILV’s majors, but students are also allowed to personalise their learning with our partners’ renowned courses. Examples: University of Technology, Sydney in Australia (IT & finance majors), Nanjing University of Aeronautics and Astronautics in China (IT & mechanics majors).

Students can also take a double degree programme in Australia, Austria, Canada, China, Ireland, Italy, Switzerland, the US, Romania or the UK.

When I was in high school, I went to Missouri on an exchange programme. I loved the way of life in the US and I always wanted to go back to study there, which is why I chose ESILV. I went to California to study for a double degree in Engineering Management. The double degree let me experience American life as a student and in the workplace, as I also did an internship there.”

Victor Dumas
Project Management Consultant / Class of 2018
+ AUSTRALIA
University of Technology Sydney
RMIT University Melbourne
Swinburne University of Technology - Melbourne
Monash University (Perth)
Griffith University Brisbane
University of Newcastle

+ AUSTRIA
MCI - Management Center Innsbruck

+ BELGIUM
Université de Liège

+ BULGARIA
Varna University of Management

+ CAMEROON
JFN IT

+ CANADA
Université Laval
Université du Québec à Chicoutimi (UQAC)

+ CHILE
Universidad Mayor

+ CHINA
Southeast University Nanjing University of Aeronautics and Astronautics (NUAA)
Shanghai Normal University Tianjin University Beijing Jiaotong University (BITU)
Harbin Institute of Technology

+ CROATIA
Algebra University College

+ CZECH REPUBLIC
CTU Czech Technical University Prague
University Tomáš Baťa (Zlín)

+ EGYPT
American University in Cairo

+ ESTONIA
Univeristõi Tartu TalTech (Tallinn Technical University)

+ FINLAND
Laurea UAS
University of Vaasa
Savonia UAS

+ GERMANY
Hochschule Furtwangen
Hochschule Reutlingen
Hochschule Rhein Weil Tech Hochschule Rosenheim
Otto-Friedrich-Universität Bamberg

+ HUNGARY
Budapest University of Technology and Economics

+ INDIA
Indian Institute of Management Indore (IIM Indore)
Woxsen University
National Institute of Technology Puducherry

+ IRELAND
Government College Dublin
Waterford Institute of Technology
Dorset College Dublin
Dublin City University

+ ICELAND
Université de Reykjavik

+ ITALY
Politecnico di Torino
Università degli Studi di Padova
Politecnico di Milano
Università degli Studi di Pisa
Politecnico di Bari

+ JORDAN
JUST Jordan University of Science and Technology

+ KAZAKHSTAN
Almaty University

+ LATVIA
Riga Technical University

+ LEBANON
Université Saint-Joseph

+ LUXEMBOURG
Luxembourg University

+ MALAYSIA
Asian Pacific University of Technology and Innovation (APU)
University Kuala Lumpur (Unikl)
Swinburne University Sarawak
Universiti Putra Malaysia (UPM)

+ NEW ZEALAND
Auckland University of Technology

+ NORWAY
Norwegian University of Life Sciences

+ ROMANIA
Universitate Babes-Bolyai (UBB)

+ SLOVAKIA
Technical University of Kosice

+ SOUTH KOREA
Hanyang University

+ SOUTH AFRICA
Wits University

+ SPAIN
Universidad Europea de Madrid
Universidad Complutense de Madrid
Universitat de Vic - Universitat Central de Catalunya

+ SWEDEN
Linnaeus University
University of Jönköping
Mälardalen University

+ SWITZERLAND
HEIG-VD Haute Ecole d’ingénierie et de Gestion du Canton de Vaud
FHWM Fachhochschule Nordwestschweiz
Hochschule Luzern
OST Eastern Switzerland University of Applied Sciences St Gallen

+ TAIWAN
National Central University
National Taipei University of Science and Technology

+ THAILAND
Kasetsart University

+ TURKEY
Bahcesehir Universities

+ UK
Coventry University
Heriot Watt University
Staffordshire University
University of Portsmouth
University of Sunderland

+ UKRAINE
National Technical University of Ukraine 'Kyiv Polytechnic Institute'
Lviv Polytechnic National University

+ UNITED STATES
University of Louisiana at Lafayette
Louisiana Tech University

+ VIETNAM
University of Technology and Innovation
Asian Pacific University of Technology and Innovation (APU)

+ VIETNAM
University of Technology and Science and Technology of Hanoi

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University of Portsmouth
University of Sunderland

100 PARTNER UNIVERSITIES IN 40 COUNTRIES

20% OF FIFTH-YEAR STUDENTS STUDY FOR DOUBLE DEGREES ABROAD

14 INTERNATIONAL DOUBLE DEGREES

+ MSc in Quantitative Finance,
University of Technology Sydney UTS (Australie)

+ MSc in Mechatronics Mechanical Engineering,
MCI Innsbruck (Austria)

+ Master’s* in IT,
Université Laval (Canada)

+ Master’s* in IT,
Université du Québec à Chicoutimi (Canada)

+ Master’s* in Mechanics,
Université du Québec à Chicoutimi (Canada)

+ DESS graduate degree in Eco-consulting,
Université du Québec à Chicoutimi (Canada)

+ Master’s in Software Engineering,
BITU Beijing (China)

+ Master’s in Software Engineering,
Tian Jin University (China)

+ MSc in Aerospace Engineering,
MSc in Computer Science,
MSc in Mechanical Engineering,
Georgia Tech (USA)

+ MSc in Mechanical Engineering,
Conventry University (UK)

+ MSc in Computing Science,
Griffith College Dublin (Ireland)

+ Laurea* magistrale in informatica,
Politecnico di Torino (Italy)

Non-exhaustive list

* Equivalent to second year of a master’s degree (Master 2)
ABOUT US
The De Vinci Innovation Center is De Vinci Higher Education’s innovative, cross-disciplinary hub. Its methods are based on a new antidisciplinary and collective intelligence learning method inspired by the MIT Media Lab.

INNOVATION
Our innovative work is organised into two groups. The Artificial Lives group develops human-centred technologies. The Resilient Futures group develops sustainable, resilient technologies for the long-term.

ACADEMIC PROGRAMMES
Our academic programmes offer a unique educational experience for engineering, digital design and PhD students and aims to reinforce students’ autonomy, initiative and sense of responsibility.

“When I visited the DVIC, it immediately made me think of the MIT Media Lab, where I studied for my master’s and PhD. If you have ever been frustrated by rigid teaching or have always wanted to build something but have lacked the necessary resources or don’t know how to go about it... If you have big dreams for inventing the future, are good at problem solving and like to learn on the job, then these labs are made for you.”

Xiao Xiao
MIT Media Lab researcher, MIT, MA USA
OUR INNOVATION GROUPS

The DVIC is divided into two innovation groups, run by researchers from the MIT Media Lab, in a maker culture with a unique vision where students shape and reinvent the future.

ARTIFICIAL LIVES

Artificial Lives explores new opportunities in the fields of human-machine interaction, extended intelligence (EI), swarm collaborative robotics based on AI, mixed reality, wearables and the Internet of Things (IoT).

“We concentrate on human-centred integrative approaches that reduce friction in a future world of ubiquitous computing.”

Clément Duhart
Principal Investigator

RESILIENT FUTURES

Resilient Futures develops sustainable, resilient technologies based on long-term aspects of climate change. We look at both alternative materials and Low Tech methodologies.

“We consider technology systems in their human and wider planetary ecosystems, looking at them holistically to evaluate their advantages and costs.”

Marc Teyssier
Principal Investigator

OUR PARTNERS

The DVIC boasts talented speakers who participate in our academic programmes. Throughout the year, these qualified speakers also take part in workshops, masterclasses and lectures. They work at Google (Big Tech), MIT (Media Lab), FormLabs (a unicorn) and Lynxter (a French startup).

OUR WORK

\ A high-quality Fab Lab supports active research with cutting-edge technologies such as 3D printing, electronic manufacturing, soft active materials, immersive and mixed reality, artificial intelligence, biotech, foodtech and Living Labs.

\ Personalised support for student, research, association, or startup projects with high potential.

\ A complete academic syllabus for the manager, engineer and designer master’s cycle based on Creative Technologies teaching how to develop new innovative products.

For example, our master’s students have created: an augmented reality mirror, an interactive pool table, a motion capture Catsuite made using e-textiles, a climate sensor and a techno-botanical workshop.

ESILV: AN INNOVATION HUB

Students learn to develop products and software in a range of fields based on advanced technological and scientific classes. One of the main objectives of these classes is to develop learning methods and strategies to encourage autonomy, particularly in research, industrial production and innovation.

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The DeVinci Research Centre (DVRC) brings together all the research prowess of the De Vinci Higher Education schools.

**DIGITAL GROUP**
+ Machine learning for digital twins and IoT
+ Big data and smart data
+ Computer Human Interaction

**FINANCE GROUP**
+ Mathematics applied to finance
+ Blockchain
+ Financial econometrics

**MODELING GROUP**
+ Energy chain modelling
+ Structures and materials
+ Complex fluids

**A LABORATORY**
The research is centred on innovation and is organised into four research groups and a partner research cell. The Digital and Finance groups are formed from across the two schools, while the Business group is specific to EMLV and the Modelling group to ESILV. The DVRC has five major objectives:

- Developing high-quality research that is recognised in academic communities in France and worldwide
- Developing partner research that is recognised in the economic community
- Promoting a research culture in ESILV and EMLV teaching
- Encouraging synergy between ESILV and EMLV majors and DVRC expertise
- Boosting interdisciplinarity between engineering sciences and management sciences

The DVRC hosts and co-funds first and second year master’s, PhD, and post-doctoral interns.

**PARTNERSHIP RESEARCH PROJECTS**
The DVRC is an active member of the Systematic, ASTech, Cap Digital and Finance Innovation business clusters and the TERATEC association on supercomputers. The DVRC is also involved in research projects financed by the government and Europe or co-financed by businesses.

- H2020 MAESHA European Project: Decarbonising Energy Systems of Geographical Islands
- FUI MoneyTrack Interministerial Project: Digitising and securing targeted payment methods through Blockchain
- Research Contracts on tourism dynamics with the Lille metropolitan area authority
- Erasmus + EntreNew European Project on entrepreneurship educational resources in the field of renewable energy
- National ANR KIMEGA project: Kinetic modelling of Mean field Games

**TEACHING AND RESEARCH CHAIRS**
The DVRC is developing a teaching and research chair creation policy with its closest partners. These chairs help to directly finance research.

- ALTAIR Sinusy chair
- Kwanko chair: digital footprints
- Energisme chair: AI to improve energy efficiency
- Legalcluster chair: legal intelligence
- reciTAL.ai chair: AI critical faculties
- Lynxter chair: Human-robot interaction
- Coexel chair: using AI to further economic intelligence

**RESEARCH HELPS STUDENT ENGINEERS**
- CIFRE theses or academic studies at the DVRC. Theses in collaboration with Polytechnique, École Normale Supérieure or INRAE
- Studying on the research track in years four and five, supervised by a DVRC research professor
- Research internships at the DVRC or in other laboratories
- PI2 projects on R&D and research subjects with high-tech startups or laboratories
- Seminars given by external researchers
- Student participation in scientific events organised by ESILV
CUTTING-EDGE FACILITIES

ESILV boasts a wide range of technical educational facilities designed as tools to help improve the teaching and student project dynamic.

+ A TRADING ROOM EQUIPPED WITH 15 BLOOMBERG TERMINALS gives students the chance to use and master this key piece of financial software. They can also bolster their credentials with Bloomberg certifications and the Bloomberg Aptitude Test.

+ 4 TECHNICAL LABORATORIES specialised in Electronics, Mechanics, Embedded Networks and Systems, and Energetics where students can use learning by doing for the fundamentals of ESILV digital engineering.
INNOVATING THROUGH PROJECTS

Students learn by experimenting with innovative technology projects and highlight their expertise and interpersonal skills at numerous competitions and events.

PURSUE YOUR PASSIONS WITH TECHNICAL SOCIETIES

Robots, boats, rockets, cars, finance… An array of societies is on offer, covering a broad range of fields and concerns relating to engineering, and opening up a number of opportunities for ESILV student engineers to carry out complex, innovative projects.

- **DAVINCIBOT**
  robotics and participation in the French Robotics Cup
- **DEVINCI FABLAb**
  supporting all students’ innovation projects
- **HYDROVINCI**
  designing the boats of the future and participating in the Monaco Solar & Energy Boat Challenge
- **LÉOFLY**
  ESILV’s aeronautical society (life-size flight simulator, scientific projects with the CNES, rocket design, etc.)
- **VINCI ECOdrive**
  designing a 100% electric racing car and competing in races (Shell Eco-Marathon and Formula Student)
- **VINCI INVESTMENTS**
  investing in the world of finance, blockchain, Fintech, etc.

*Supported by the DVIC
STARTUP MINDSET

The projects provide fertile ground for expanding startup ideas and experimenting using the agile test and learn method favoured by entrepreneurs. Meetings with startups are organised (BlaBlaCar, Molotov, Doctolib). The De Vinci Startup pre-incubator helps student engineers take their own projects to competitions and investors.

ESILV AT VIVA TECHNOLOGY

Vivatech, a major event bringing together Europe’s digital and technology innovators, welcomed 600 ESILV student engineers in 2019 via an academic partnership. Four startup projects representing ESILV were singled out by companies such as Orange and Startup Corner, following a rigorous selection process.

+ Guidecam / A connected cane for the visually impaired and an artificial intelligence algorithm
+ Appetee / An anti-waste app providing simple recipes
+ M3D / Low-cost orthopaedic supports made using 3D printing

PROJECTS FOR MAJOR COMPANIES, DE VINCI HIGHER EDUCATION LABORATORIES AND SOCIETIES, OR STUDENTS’ OWN STARTUPS…

+ PEPITE FRANCE CHALLENGE 2019
ElectrikWalk, the brainchild of Jean-Siegel Guillaume (class of 2019), won the Innovate for Energy prize at the third Pépite France Challenge, in partnership with ENGIE. This nationwide challenge is organised by Pépite France, the leading Student-Entrepreneur network.

+ PITCH YOUR PROJECT TO THE CEO OF MICROSOFT
Our student engineers’ citizen online voting app based on blockchain was chosen from among a number of projects during Microsoft France’s Blockchain Hackaday Hackathon to be presented to Satya Nedella, CEO of Microsoft.

+ CGI CITIZEN CHALLENGES
TWO FIRST PRIZES
Every year, CGI organises a competition to highlight ethical, community-minded student projects. The EasyFlow project won first prize at the 2019 CGI Citizen Challenges in the Environment category and the Li.li project won first prize in the Disability category for an app that helps dyslexic readers. Each team won €3,000.

+ VALEO INNOVATION CHALLENGE
THE CAR OF 2030
Five ESILV student engineers beat 1,623 competitors to reach the world semi-final of this competition.
FORGE STRONG BUSINESS LINKS

ESILV’s educational programme, designed with and for businesses, as well as the large proportion of time spent in the corporate world during the course (a minimum of 13 months), help explain the ease with which recent ESILV graduates find employment.

ESILV cultivates close ties with businesses in all sectors: finance, banking, insurance, energy, aeronautics, automotive, engineering, IT services, mechanics, etc. Students gain access to these industries through professional projects, internships, Alternance programmes, lectures from professionals on jobs and expertise, etc.

AT LEAST 1 YEAR WORKING IN A COMPANY

Three key experiences shape the course and help future engineers to hone their career plans.

+ The introduction to the world of work internship lasting 3 to 4 months at the end of the second year of the integrated foundation course
+ The technical internship lasting 4 to 5 months in the fourth year, to put their initial technical knowledge into practice and prepare for working as an engineer
+ The graduate engineering internship lasting 5 to 6 months, to put their professional skills into practice and prepare to enter the world of work.

STUDENTS WORK ON CONCRETE PROBLEMS AND CONSTANTLY APPLY THEIR KNOWLEDGE TO REAL-WORLD SITUATIONS.

IBM AND STELLANTIS MENTORING 2022 & 2023 GRADUATES

OUR CAREER FORUMS

Every year, ESILV holds several Student-Company exchanges and meetings through Forums that take place in France and abroad for Alternance, internships and meetings with alumni, giving our students and partners the chance to discuss professional opportunities. Over 200 companies meet our students at these events, including Accenture, BNP Paribas, Dassault Systèmes, Danone, Deloitte, DXC, Google, IBM, EY, Keyrus, HSBC, Microsoft, Orange, Orano, PWC, Stellantis, Valeo and Veolia.
DEVELOPMENT COMMITTEE

The aim of the Development Committee is to benefit from the feedback and expertise of Directors, VPs, Directors of Innovation and Managers concerning ESILV’s teaching for a 3/5 year profession/technical forecast. Every year it brings together experts from businesses working in the school’s main sectors with ESILV’s educational teams. The committee helps the school define its priorities and areas of focus for its teaching to make it easier for student engineers to find employment.

THE BUSINESS MEMBERS

AXA, BNP Paribas, CEA, EY, IBM, General Electric, the French Ministry of the Interior and Ministry of the Armed Forces, Orange, PwC, Stellantis, and more.

Laurène Delsupexhe, ESILV 2019, was chosen for an all-female mission to Mars simulation along with five other female scientists from four different countries. Laurène was an engineer for Womars, an all-female team selected by the Mars Society to simulate life on Mars, from 30 January to 14 February 2021.

ESILV is a member of the Elles Bougent Association which aims to highlight top engineering professions in all industrial and technology sectors that are lacking in female talent. High school and university students studying scientific and technology subjects meet and talk to female engineers working in partner business throughout the year at events organised by the association.

WWW.ELLESBOUGENT.COM

The Talents du Numérique Association brings together over 2,700 companies (including Capgemini, Accenture, Alten, CGI, Sopra Steria, Cisco, IBM, Oracle and SII) from the digital sector through two professional unions and 87 higher education institutions (including ESILV and IIM) which work together to spread digital culture and promote engineering professions in digital technologies.

WWW.TALENTSNUMERIQUE.COM

12,000

INTERNSHIP, ALTERNANCE OR GRADUATE JOB OFFERS PER YEAR FROM OUR PARTNER BUSINESSES
Being successful in your university studies does not only depend on the quality of the scientific, technical and professional teaching that you receive. It also involves students’ individual fulfilment, developing their personal talents and soft skills.  

SOFT SKILLS, STUDENT PROJECT  
DEVELOP YOUR NETWORK

A COMPREHENSIVE PROGRAMME TO HELP STUDENTS STRENGTHEN THEIR SOFT SKILLS
De Vinci Higher Education brings together all student support services for the three schools, EMLV, ESILV and IIM, to help students develop the personal skills they use in their daily lives.  
+ Soft skills and personal development training  
+ Language training and intercultural discovery  
+ Cross-disciplinary innovation Boot Camps addressing societal and environmental issues  
+ Developing a career plan and supporting students in their search for an internship and employment through careers courses and the Career Centre  

TAKE CONTROL OF YOUR FUTURE
Every student receives support to help them take full advantage of all their experiences and understand what makes them unique. This is important if they are to choose the career path that is best suited to their profile and stand out on the job market.

8,000
EMLV, ESILV AND IIM STUDENTS WORK TOGETHER FROM THE FIRST TO THE FIFTH YEAR
SOFT SKILLS AND CROSS-DISCIPLINARY APPROACH

OVER THE COURSE OF FIVE YEARS, ESILV PROPOSES A COMPREHENSIVE PROGRAMME THAT CONSISTS OF SOFT SKILLS TRAINING AND PERSONAL DEVELOPMENT ASSISTANCE DESIGNED TO MEET THE CHANGES AND EXPECTATIONS OF THE PROFESSIONAL WORLD.

DEVELOP SELF-AWARENESS AND MAKE PROGRESS
Discover who you are. Understand how you work, your motivations, your stress triggers and your values. Identify your talents. Master your emotions and manage your stress. Practise self-reflection...

MAXIMISE YOUR RELATIONSHIPS
Develop your public speaking skills and powers of persuasion. Hone your ability to work in a team. Improve your assertiveness and listening skills. Practise conflict resolution. Discover your individual leadership style and evaluate your personal impact on a group...

TAKE ACTION
Optimise your efficiency working individually and as a team. Improve your time management. Discover agile methods to organise your work and innovative design thinking practices. Hone your collaborative project management skills...

DEVELOP OPEN-MINDEDNESS
Develop your creativity. Hone your critical thinking. Improve your ability to learn how to learn. Discover interculturality. Take environmental and societal issues into account...

SOFT SKILLS AND A CROSS-DISCIPLINARY, INTER-SCHOOL APPROACH
Students work on their soft skills in mixed groups from our three schools. Students learn to work with people from other programmes, to accept differences, to recognise the talents of others, and to recognise the need for complementary skills. Inter-school cooperation is a unique experience that helps students become more open-minded and grow in their personal development. It also meets the expectations of recruiters, as cross-disciplinary skills are perfectly suited to new working paradigms.

A CROSS-DISCIPLINARY APPROACH REFLECTED IN OUR DOUBLE DEGREES
The proximity of the three schools allows students to pursue double degrees in all or part of the curriculum, such as the Engineer-Manager programme, which is offered in the first year of the undergraduate course.

OUR THREE-POINT SOFT SKILLS TRAINING PROGRAMME

+ A COMPREHENSIVE FIVE-YEAR PROGRAMME
The ESILV Soft Skills programme runs over the full five years of the course and represents a total of 350 hours of training. It is closely linked to the Career Centre programmes on career plans and finding an internship and job.

+ POSITIVE TEACHING
Every student has special talents that they must identify if they are to cultivate them. They can also develop new skills through their training and experience. These soft skills will become assets in their personal and professional lives, and will serve them well for their internships and recruitment interviews.

+ ACTIVE LEARNING
Soft skills learning is very interactive, involving methods such as role play, exercises, working in project mode, situation-based learning, flipped classrooms, peer learning, etc. Soft skills teachers assist and help maximise the students’ potential.

HARD SKILLS AND SOFT SKILLS WORKING HAND-IN-HAND

+ SOFT SKILLS
Personal qualities, interpersonal and behavioural skills, talents, people skills and cross-disciplinary know-how, life skills, and more

+ HARD SKILLS
Scientific knowledge, technical skills, professional expertise, and more

SOFT SKILLS SUPPORT FOR ESILV ENGINEERING PROJECTS
Every year, ESILV students have a team scientific and technical project to carry out. The success of an engineering project relies on the combination of two factors: technical performance and the level of interpersonal cooperation. The ESILV teams therefore benefit from two-fold support for their project: technical supervision and soft skills coaching.
GROW AND DEVELOP YOUR POTENTIAL THROUGH SPORTS

SPORTS FOR EVERYONE

ESILV has an entire sports department dedicated to both technical performance and the acquisition of soft skills through sport.

36 SPORTS OFFERED AND EVALUATED

36 individual or team sport disciplines are taught by experienced, certified instructors. Upon arriving at the school, each student chooses a sport and mode of practice: beginner or competitive. No previous experience is required. Everyone is able to pass the sport module since 50% of the grading is based on technical skills (know-how) and 50% on behavioural skills (life skills).

TODAY’S ATHLETES ARE TOMORROW’S DECISION-MAKERS

Unlike the usual, and often optional, practice of sport in higher education, where only results matter, De Vinci Higher Education sees sport as a valuable way to develop talents and life skills that will make a difference in the job market.

TEAMWORK, TEAM SPIRIT, AUTONOMY, INITIATIVE, DISCIPLINE AND PUNCTUALITY, FAIR PLAY, RESPECT FOR THE RULES, RESPECT FOR OTHERS AND FOR OPPONENTS, ENTHUSIASM AND DESIRE TO LEARN.

The Génération 2024 label was created by France’s Ministry of Higher Education, Research and Innovation in August 2018 in preparation for the 2024 Olympic Games. ESILV obtained the label in January 2019. The label aims to strengthen links between the academic world and the sporting movement to encourage students to exercise and play sports.

ESILV has fully invested in this process, integrating mandatory sports classes into its academic programme for more than 3,000 students a year, welcoming high-level athletes through a dedicated and historically renowned stream, and by organising the annual Olympic and Paralympic Week.
BEGINNER LEVEL

\[80\%\] of students enrolled on the leisure programme.
\[1\] mandatory session a week, in the sport of your choice.

Sports offered at beginner level

- Athletics
- Badminton
- Basketball
- Boxing
- Acrobatics
- Climbing
- Contemporary dance
- Fencing
- Field hockey
- Fitness
- Floor gymnastics
- Football
- Handball
- Hip-hop dancing
- Judo
- Karate
- Modern jazz
- Physical training
- Pilates
- Roller skating
- Rowing
- Rugby
- Boxing
- Self-defence/ju-jitsu
- Swimming
- Table tennis
- Tennis
- Urban soccer
- Volleyball
- Weight training
- Yoga

FFSU COMPETITION PROGRAMME

(French Federation of University Sports)

\[20\%\] of students are selected for the competition programme.
\[1\] to \[2\] mandatory session(s) a week, in the sport of your choice.

Evening training sessions + competitions on Thursdays according to the university competition schedule.

Sports offered at competition level

- American football
- Athletics
- Badminton
- Basketball
- Boxing
- E-sports
- Fencing
- Football
- Handball
- Horse riding
- Judo
- Karate
- Karting
- Rowing
- Rugby
- Savate
- Swimming
- Tennis
- Volleyball

THE DE VINCI ROWING CLUB

Rowing has been one of the sports offered by De Vinci Higher Education for the last two years. It is thanks to the impetus of a group of students who wanted to popularise their sport that rowing has now become available to De Vinci Higher Education students.

Rowing is renowned for being an all-round sport that works both the upper and lower body. This particularity is one of the reasons that practising this sport at competition level requires a daily commitment to training.

De Vinci Higher Education has been excelling in competitions against other French schools since its first year. Our goal is to introduce the sport to as many people as possible and to convey to all the teamwork, spirit of camaraderie, drive and desire to push yourself you get from rowing.

"ROWING IS A GREAT EXAMPLE OF A TEAM ENDEAVOUR, A GROUP OF WOMEN OR MEN UNITING TO DO THEIR BEST, LEARN, TRAVEL AND, ABOVE ALL, PROGRESS!"

Maxime BROUSSART
President of Aviron DeVinci 2021/2022

ROWING

CONNECTED U’ROW CHALLENGE 2021 RESULTS

- 12th in France, men’s team, 1,000 m (Antoine Mauvoisin, Benjamin Porterie, Maxime Broussart, Romain Manoilov)
- 4th in France, mixed team, 1,000 m (Adrien Vanazzi, Maxime Broussart, Laurine Salvert, Alice Jouanne)
- 3rd (Philippe Macré), 6th (Florian Quenneville), 21st (Benjamin Porterie) and 41st (Antoine Mauvoisin) in France, men’s 500 m
- 14th (Alice Jouanne), 29th (Laurine Salvert) and 32nd (Clémence Freulon) in France, individual women’s 500 m

ESPORT

OUTSTANDING RESULTS AND EVENTS 2020-2021

- ESS French Championship, Top 1 and 2, Université-sport and Top 1, 2 and 3, Student Gaming League on Rocket League
- Top 4, Esport League FR on League of Legends
- Top 4, Materiel.net Trophy on CS:GO
- Top 8, Kalos League on Pokémon
- Charity Contenders, charity event which raised €1,302.23 for Agoraès, which helps students in difficulty

Romain Valadier, judo gold medallist at the Junior European Championships
BE ENGAGED IN YOUR STUDENT COMMUNITY

CLUBS AND SOCIETIES

ESILV’s clubs and societies give students the opportunity to develop their behavioural skills through optional volunteering that is supported by the school and that can be promoted in job searches.

INTER-SCHOOL COOPERATION AND PARTICIPATION

Our clubs and societies are “inter-school”, which means that they welcome students from all three of De Vinci Higher Education’s schools. They encourage ESILV students to work together with people who have more of a “business” or “digital” profile as partners.

A PLACE FOR EVERY PASSION

Over 350 events are held on campus every year. Theme days, competitions, trips and parties, offering something for everyone. The De Vinci student society network covers all areas of higher education: humanitarian, cultural, sporting, scientific, technical, etc.

HIGHLIGHTS: STUDENT CLUBS

The De Vinci Higher Education student office works with the Club 3V (Veni Vedi devinci) to offer ESILV students an array of activities: networking events, student feedback sessions regarding projects and internships, student orientation evenings, talks from alumni, etc. “Designing a 100% electric and eco-friendly race car” is the ambition of Vinci Eco Drive (VED), which is devising, innovating, designing and creating an extremely energy efficient vehicle from start to finish for the annual Shell Eco Marathon. How about some friendly competition? During the lockdown, ADA, AMMA, Comedia Da Vinci, DeVinciFabLab, Games of Devinci, Music Mix, Leo’Art and Vincillusion worked together to organise the first “DevinciOnline Contest”, an online competition for which each society organised an event. Make sure you contact the Léolearning tutoring society if you would like to help your peers or if you would like some extra help with your academic work…

PROFESSIONALISM AND RESPONSIBILITY

The vast selection of clubs and societies to choose from helps students mature, develop extracurricular skills, and build social ties that will come in useful throughout their careers. They are overseen by the student life service, a team that leads, organises and evaluates the management of each of the 58 student groups, and works to emphasize the value of this commitment.

A COMMITMENT WITH GUIDANCE AND SUPPORT

+ Time for participation is built into the course schedule
+ Bonuses are granted to the most active students
+ Dedicated premises and resources are provided
+ Mandatory training is provided to elected student representatives

FIND OUT MORE ABOUT OUR STUDENT CLUBS AT WWW.DEVINCI.FR
CLUBS

**LEISURE**
Comedia Da Vinci, Davincishark, La Joute De Vinci, La Cave De Vinci, Musique Mix, Poletech, Vinci Illusion, Leon’Art…

**BUSINESS**
TEDxClub De Vinci, Devinci Junior, Devinci Partners, Vinci Investment…

**HUMANITARIAN AND CIVIC**
ADA, Devinci Durable, Léo & Co, ESN Devinci, LéoLearning…

**SPORTS**
AMMA, Aviron De Vinci, BDS, Eagles, LéoBasket, LéoClimb, LéoFive, Léo King’s Walker, LéoPompom, LéoRugby, Léo Running club, LéoSquale, LéoStunt, LéoSphere, LéoSurvival, LéoVoile, LéoVolley, LDV Esport, Slide Session…

**TECHNICAL**
DevinciFablab, DaVinciBot, VED, LéoFLy, HydroVinci

350 58
EVENTS PER YEAR  CLUBS
TRIE & FLOURISH

CAMPUS ENVIRONMENT
ESILV benefits from an exceptional campus at De Vinci Higher Education in the heart of Paris-La Défense. State-of-the-art facilities and equipment provide optimal conditions for students to study and grow. Campus infrastructure and the teams that support the students make it a unique place to live and learn.

ON-CAMPUS SPORTS FACILITIES
5 sports facilities
- 1 weight-lifting room
- 1 cardio-training area
- 2 fitness studios
- 1 combat sports studio

ACCOMMODATION
Student residences (Modigliani Residence, Estudines and Studéa Residences) are located nearby the campus. Here, students are provided with furnished studio apartments generally measuring 18/20 m² which offer a level of comfort and furnishings that meet the specific needs of French or international students for short- or long-term rentals.

ESILV runs a housing platform which features offers for available accommodations in Ile-de-France. Apartment sharing is also available. [http://housing.devinci.fr](http://housing.devinci.fr)

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EXCEPTIONAL STUDY ENVIRONMENT!
11 lecture halls seating 125, 150 or 250 people.
183 classrooms equipped with Wi-Fi and audiovisual installations.
25 seminar rooms and scientific laboratories (physics, mechanics and computer).
40 computer rooms, plus work rooms available at the Learning Centre

LOUNGES AND LEISURE AREAS: STUDENT LOUNGE, MUSIC ROOM, TABLE FOOTBALL, SNOOKER AND A CAFETERIA.

DIGITAL LEARNING LAB
The Digital Learning Lab helps all professors improve their teaching by making use of digital technologies.

RESOURCES
The Digital Learning Centre provides access to paper and digital resources in business and management, language learning, and science and technology. Students may work remotely by accessing online resources (DeVinci Online, Scholarvex, etc.).
+ A platform of 40,000 e-books accessible online.
+ Online digital resources provide access to daily French and international newspapers, market research, statistics and company profiles.
+ Numerous case studies and online courses produced by Harvard Business Publishing are available to supplement learning. For research: English-language academic journals are accessible via Elsevier, ACM and EBSCO.
JOBS JUST A CV AWAY

€43,500
AVERAGE GROSS ANNUAL INCOME

85%
NET EMPLOYMENT RATE

SECTORS HIRING GRADUATES

<table>
<thead>
<tr>
<th>Sector</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT (industry and services)</td>
<td>28%</td>
</tr>
<tr>
<td>Banking, finance &amp; insurance</td>
<td>24%</td>
</tr>
<tr>
<td>Energy and sustainable cities</td>
<td>14%</td>
</tr>
<tr>
<td>Automotive, aeronautical, naval, rail/transport industry</td>
<td>13%</td>
</tr>
<tr>
<td>Consultancy firms</td>
<td>13%</td>
</tr>
<tr>
<td>Building, public works, construction</td>
<td>4%</td>
</tr>
<tr>
<td>Other</td>
<td>4%</td>
</tr>
</tbody>
</table>

Source: 2020 survey asking recent graduates about their first jobs

EXAMPLES OF POSITIONS

- Design and Analysis Engineer
  Access ESP Houston, USA
- Analyst
  Accenture
- Actuary
  Crédit Agricole Assurances Solutions
- Customer Experience Consultant
  Oracle
- Photovoltaic Project Manager
  Engineer
  Phosphoris
- CSR Coordinator
  Nexity
- Front Office Support Analyst
  Quanteam
- Big Data Consultant
  Ad Maiora Geneva, Switzerland
- Engineering Consultant
  Alten Technology GmbH Hamburg, Germany
- European Government Bonds Trader
  Société Générale London, UK
- Quantitative Analyst
  Deloitte Sydney, Australia
- System Design and Modelling Engineer
  SNCF
- Business Analyst
  Altran/Cap Gemini
- Flow Support Product Engineer
  Safran Electronics and Defense
- Junior Business Manager
  Cegelec
**APPLICATION PROCESS**

01 **CONTACT US**

02 **COMPLETE AND SUBMIT YOUR ONLINE APPLICATION**
https://international.leonard-de-vinci.net

03 **PRE-SELECTION BASED ON YOUR APPLICATION**

04 **ONLINE INTERVIEW**

05 **ADMISSION & SCHOLARSHIP RESULTS**

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**ADMISSIONS**

**ACCREDITATION**

+ The ESILV Engineering programme is recognised and accredited by the French Ministry of Education and delivers the Grade de Master (state degree: bac+5) and the Titre d’Ingénieur
+ Since 2003, ESILV is authorized by the CTI to deliver the Titre d’Ingénieur (Engineering degree title)
+ CGE and RNCP accredited: APS eligible (post-study work permit)

**REQUIREMENTS**

+ 60 ECTS or equivalent per academic year for each year prior to your integration in Engineering or Computer Science.
+ **French track:** DELF B2. Native French speakers, and those who have previously graduated from a degree programme taught entirely in French, are exempted.
+ **English track:** IELTS 6.5 or equivalent (TOEIC, TOEFL, Duolingo, Cambridge, Pearson). Native English speakers, and those who have previously graduated from a degree programme taught entirely in English, are exempted.

**ADMISSION CALENDAR**

+ Rolling admission throughout the year
+ Applications open one year in advance of the programme start date
+ Applicants are strongly encouraged to submit their application as early as possible

**KEY INFORMATION**

+ 60 ECTS per year
+ Intake September 2022
+ Tuition fees 9,300€ per year

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**CONTACTS**

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