

BACHELOR PROGRAM

BACHELOR COMPUTER SCIENCE & ICT

Code has become the language of business

Bachelor Informatique & TIC — Le code est devenu le langage des affaires

3 years

180 ECTS, FROM BAC TO BAC+3

4 Bachelors

SOFTWARE · AI & BIG DATA · ...

2 diplomas

BACHELOR ESGI (FRANCE) · ...

DEGREES AWARDED · DIPLÔMES DÉLIVRÉS

Bachelor ESGI (ESGI Paris)

Bachelor's Degree in Information and Digital Technologies (IDT) (UFRA)

ACADEMIC YEAR 2026-2027

Université Française d'Abidjan · ESG Graduate School — Abidjan

01 PROGRAM OVERVIEW

Présentation du programme

The UFRA × ESGI Engineering & Digital Sciences division trains the digital professionals of tomorrow, equipped to design, develop, and secure innovative technology solutions. ESGI is the computer engineering school of the ESG group, a member of Galileo Global Education, Europe's leading private higher education network: a project-based pedagogy designed by engineers. Four Bachelor's tracks to choose from — Software Architecture, Artificial Intelligence and Big Data, Systems, Networks and Cloud Computing, and Cybersecurity — all leading to the Bachelor's Degree in Information and Digital Technologies (UFRA).

LEARNING OBJECTIVES

- ◆ Train versatile professionals who master the fundamentals of computer science: software development, systems and networks, databases, and web and mobile technologies;
- ◆ Build practical expertise through project-based learning: coding from the very first month, with a company project every year including a deliverable and a defense;
- ◆ Support companies' digital transformation by preparing graduates capable of designing, deploying, and securing innovative technology solutions;
- ◆ Strengthen cross-disciplinary skills: communication, teamwork, project management, and technical English;
- ◆ Prepare students for the division's four specializations: Software Architecture, AI and Big Data, Systems, Networks and Cloud, and Cybersecurity.

KEY FACTS · REPÈRES

Licence · Bac+3

EXIT LEVEL

3 years

DURATION

French

LANGUAGE OF...

High school graduates

ADMISSION

SPECIALIZATIONS

Software Architecture

You'll learn to design and build applications that hold up under load, from the first prototype to production deployment.

CURRICULUM

- ◆ Algorithms and Programming (Java, Python, C#, JavaScript)
- ◆ Object-Oriented Programming and Best Practices
- ◆ Databases and Modeling
- ◆ Web and Mobile Development
- ◆ Software Architecture and APIs
- ◆ Agile Methods, Git, DevOps, and Testing

TARGET ROLES

Full-Stack Developer · Software Engineer · Mobile Developer · Lead Developer · Technical Project Manager · Application Architect

Artificial Intelligence and Big Data

You'll learn to make data speak: collecting it, cleaning it, modeling it, and drawing decisions from it.

CURRICULUM

- ◆ Python for Data Science and Applied Statistics
- ◆ Machine Learning and Deep Learning
- ◆ Natural Language Processing and Computer Vision
- ◆ Big Data: Distributed Storage and Processing
- ◆ Data Visualization and Reporting
- ◆ Ethics, Bias, and Data Governance

TARGET ROLES

Data Analyst · Data Scientist · Machine Learning Engineer · Data Engineer · Data Consultant · Data Research Officer

Systems, Networks and Cloud Computing

You'll learn to build and maintain the infrastructure: the servers, networks, and cloud that everything else relies on.

CURRICULUM

- ◆ Linux and Windows Systems Administration
- ◆ Networks: TCP/IP, Routing, Switching
- ◆ Virtualization and Containerization (Docker, Kubernetes)

- ◆ Cloud Computing (AWS, Azure) and Distributed Architectures
- ◆ Automation, Scripting, and Monitoring
- ◆ High Availability, Backup, and Continuity

TARGET ROLES

Systems and Network Administrator · Cloud Engineer · DevOps Engineer · Infrastructure Architect · Expert Technician

Cybersecurity

You'll learn to defend: detecting attacks, fixing vulnerabilities, and protecting company data.

CURRICULUM

- ◆ Systems and Network Security
- ◆ Cryptography and Identity Management
- ◆ Penetration Testing and Ethical Hacking
- ◆ Incident Detection, SOC, and Analysis (SIEM)
- ◆ Governance, ISO 27001, and GDPR Compliance
- ◆ Digital Forensics and Incident Response

TARGET ROLES

SOC Analyst · Pentester · Cybersecurity Consultant · Security Auditor · Security Administrator · Future CISO

* Programmes may evolve to stay in step with changing professional practice.

03 CAREERS & PARTNERSHIPS

Débouchés & partenariats

FURTHER STUDIES

- ◆ Master ESGI (Bac+5) at UFRA, with five specializations including Information Systems Management;
- ◆ Direct entry into the job market;
- ◆ ICAD certificates for additional specialization options.

ACADEMIC PARTNER

A DUAL DEGREE WITH ESGI PARIS

A dual degree, two forms of recognition: Bachelor ESGI awarded through the ESGI Paris partnership, and Bachelor's Degree in Information and Digital Technologies (IDT), accredited by the MESRS (Côte d'Ivoire).

Mandatory internship

AND EVERY YEAR, A COMPANY PROJECT WITH A DELIVERABLE AND A DEFENSE

04 ADMISSION & TUITION

Admission & frais de scolarité

ADMISSION PROCESS

1

Online application

File and transcripts on ufra-esg.org

2

File review

Assessment by the admission committee

3

Motivation interview

On campus or by videoconference

4

Enrollment

Admission decision and confirmation

ENTRY REQUIREMENTS

- ◆ Admission level: High school graduates (science tracks C, D, E recommended) or holders of a Bac+1 or Bac+2 through parallel admission, based on application review and an entrance test.

FEES 2026-2027

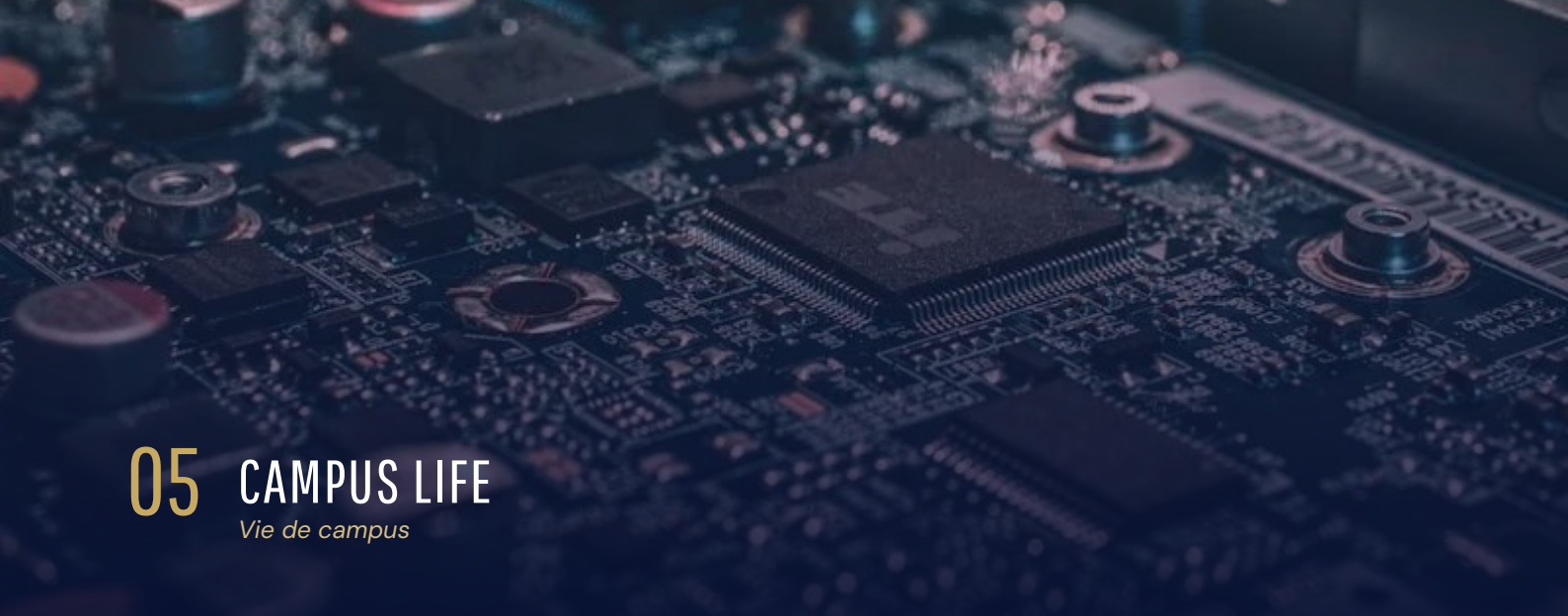
Annual **Annual tuition: 2,800,000 F CFA (Bachelor 1), 2,900,000 F CFA (Bachelor 2), 3,500,000 F CFA (Bachelor 3), excluding registration fee, payable in four installments**

Daytime, evening, or weekend classes (depending on profile). Duration: 3 years. Language of instruction: French. Intake: 2026-2027 academic year.

APPLICATIONS OPEN – 2026-2027 INTAKE

Candidatures ouvertes – Rentrée 2026-2027

UFRA-ESG.ORG



05 CAMPUS LIFE

Vie de campus

- ◆ Cocody Riviera 3 campus: library, study spaces and project rooms
- ◆ Competitions, business games and inter-school projects all year long
- ◆ Student societies: entrepreneurship, debate & public speaking, sports, culture
- ◆ Career support: annual corporate forum, alumni mentoring

ADDRESS

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APPLY

ufra-esg.org
Intake: October 2026