

Mathematics and Computer Science Department
COORDINATOR OF THE PROGRAM
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CyberSecurity

**CAREER OPPORTUNITIES
 AND INTEGRATION**

Functions:

Design engineer,
 Software engineer,
 Software architect,
 Project Manager,
 Development Engineer,
 Software Quality Engineer,
 System and Network Engineer,
 Systems Administrator,
 Information Systems Development
 Engineer,
 Information Systems Administrator
 Engineer,
 Information systems architect
 engineer,
 Application and data server
 administrator engineer,
 Chief Data Officer,
 System Administrator, QA Engineer,
 Business Intelligence Manager,
 Data Protection Officer,
 DEVSECOPS engineer,
 IS Security Engineer,
 Cybersecurity Manager,
 Security Auditor, IS Security Manager,
 Security Operator, Security Analyst,
 Security Expert,
 Consultant, Teacher, Researcher, etc.

Sector:

Public
 Ministries, public administrations,
 higher education establishments, etc.

Semi-public:
 Offices, Régies, etc.

Private sector:
 Software publishers,
 Engineering and Consultancy firms,
 Offshore companies,
 Telecoms operators,
 Banks, Insurance, Industry,
 IT solutions design and development
 companies, IT services and
 engineering companies (SSII),
 Business intelligence systems design
 and development companies,
 Cybersecurity solution operators,
 Digital Trust solution operators,
 Security auditors,
 Operational security centres, etc.

OBJECTIVES OF THE PROGRAM

- Provide generalist, multi-skilled computer engineers who develop a range of skills in various areas of Information and Communication Technologies (ICT),
- Provide a profile of meeting the needs of companies operating in the fields of ICT and software engineering in general and cybersecurity and digital confidence in particular.

SKILLS ACQUIRED ON COMPLETION OF THE PROGRAM

- Analyse all types of IT problems,
- Design and develop information systems,
- Design and deploy IT infrastructure architectures,
- Implement architecture virtualisation,
- Designing, developing and deploying secure Web and mobile applications,
- Design and develop secure distributed and parallel architectures,
- Administering and securing on-premise and cloud infrastructures,
- Administering and securing an information system,
- Implement measures to detect attacks and counter-attacks,
- Analysing data from an information system to help make decisions about information security, Auditing and securing information systems, including digital rights and ethical hacking,
- Develop a dashboard and operational security centres for modern information systems,
- Develop and implement information systems security management and governance strategies and tools,
- Aligning an IT strategy with a company's business and risk management strategy.

ACCESS CONDITIONS :

- Candidates who have completed the two preparatory years of the engineering cycle,
- Candidates who have passed the national competitive entrance examination,
- Holders of the following diplomas (file examination + competitive examination): DEUG, DUT, DEUST, DEUP, DEUT, BTS, DTS, In two consecutive years with at least a mention "Assez bien".