

Field of study **Sciences and engineering**

Training available in

Apprenticeship

Initial training

Continuing education

Recognition of prior learning

How to apply :

<https://www.univ-gustave-eiffel.fr/en/formation/applications-and-enrolment/applications>

Course venue :

Campus Marne la Vallée - Champs sur Marne - Bâtiment Copernic 5 Boulevard Descartes 77420 Champs-sur-Marne

Calendar :

Work placement and/or work-study programme: two days at the University / three days at the company, except for the weeks spent exclusively in the company according to the schedule drawn up each year.

Contacts :

Hervé CLEMENT (LP)
Academic coordinator

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Academic secretary
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More information :

For further details :

<https://www.univ-gustave-eiffel.fr/international/etudiants-internationaux>

Service Information,

Orientation et Insertion Professionnelle (SIO-IP) :

sio@univ-eiffel.fr / Tel : +33 1 60 95 76 76



Professional Bachelor Decision-making and information processing (data-mining)



UFR de Mathématiques (MATHS)

Professional Bachelor LP

TO GET THERE

Candidates must have obtained a 2-year post secondary education level in Mathematics/Computing or equivalent: L2 Computer Mathematics, Economic Sciences, Mathematics applied to Social Sciences, Technical University Diploma (DUT) in Statistics and Business Intelligence or Computer Science, Advanced Vocational Training Certificate (BTS) in Computer Science Management, etc.

ACQUIRED SKILLS

This programme enables students to acquire skills related to tools and methods for business intelligence (e.g. Microsoft BI Suite), statistics (e.g. SAS, R, Python multidimensional analysis, linear and non-linear models), Big Data, as well as data-mining in companies. Throughout the year, students will take part in group projects.

They will also have the opportunity to acquire communication and English skills to help them in finding a job.

YOUR FUTURE CAREER

On completion of the programme, graduates will be able to apply for the following positions: analyst, research manager, data scientist, data-miner, marketing research manager, forecaster, database administrator, statistician, business intelligence consultant, etc.

BENEFITS OF THE PROGRAM

The aim of the Data-Mining professional Licence is to train data processing professionals who can start working very quickly. As part of their work-study programme, students are integrated into operational departments and may, for example, be tasked with designing large data warehouses or implementing statistical forecasting models and scores. This programme trains students in the dual skills of statistics and business intelligence; skills that are very much in demand these days in companies, given the increase in data volumes and the importance of data in decision-making. Skills in both statistics and computer science are highly valued by companies in all sectors. To date, the following companies have placed their trust in us by recruiting our students as apprentices or employees: URSSAF, EDF, Engie, Société Générale, La Poste, Orange, SFR, BNP, Carrefour, AXA, Mairie de Paris, Conseil Général d'Ile de France, Le Gan, Air France, Lincoln, SNCF, AVIVA, Disney, and more. A large number of apprenticeship opportunities offered by our many partners through the Descartes Apprentice Training Centre and the two Associate Professors assigned to the programme. Students receive comprehensive support in finding an apprenticeship: CV and covering letter writing, interview advice, etc. In addition, the faculty on this programme is made up of experts from the academic world and experts from the professional world, combining the rigour of theory with practical experience.

More information



YEAR

COMPETENCES DISCIPLINAIRES

S1-Introduction statistique (ECTS:2)

S2-Analyses multidimensionnelles (ECTS:2)

S3-Classification non supervisée (ECTS:2)

S4-Régression linéaire (ECTS:2)

S5-Classification supervisée (ECTS:2)

I1-Introduction aux bases de données relationnelles (ECTS:2)

I2-Plateforme data intégrée avec Amadéa (ECTS:2)

I3-Architecture Big Data (ECTS:2)

I4-Modélisation SI / DataWarehouse (ECTS:2)

I5-Python (ECTS:2)

DM1- Initiation au langage SAS (ECTS:2)

DM2-Techniques de scoring sous R et Python (ECTS:2)

DM3-Gestion de projet (ECTS:2)

DM4-Introduction réseaux de neurones (ECTS:2)

DM5-DMP / Webanalytics (ECTS:2)

COMPETENCES TRANSVERSALES ET LINGUISTIQUE

Communication (ECTS:3)

Anglais (ECTS:3)

COMPETENCES PROFESSIONNELLES

Projet tutoré en fouilles de données (ECTS:12)

Stage (ECTS:12)