ADVANCED MASTER

ARTIFICIAL INTELLIGENCE & BUSINESS TRANSFORMATION

(MS AIBT)

2024

ISae
SUPAERO
Institut Supérieur de l'Aéronautique et de l'Espace

In partnership with :

IRT SAINT EXUPÉRY

tbs EDUCATION

Excellence with passion

Professionally-oriented training for apprentices, professionals, and students.

Objective

Training engineers and managers capable of transforming the company through AI.

- *The Advanced Master's degree in Artificial Intelligence and Business Transformation, accredited by the Conférence des Grandes Ecoles.*

- *The «Project Manager in Artificial Intelligence and Data Sciences» professional certification registered with the RNCP (National Directory of Professional Certification) under number 35609.*

FRANCE compétences
CERTIFICATION
enregistrée au RNCP

Skills

- *Manage large data flows*

- *Use machine/deep learning techniques*

- *Monetize a product based on AI*

Job prospect

- *Project Manager in Artificial Intelligence and Data Sciences*
- *Head of corporate transformation through data*

- *Head of Data Value creation / Data Evangelist*
- *Senior Data scientist*

Program flow

An alternating rhythm to acquire operational skills: on average three weeks per month in a professional situation and one week in class on the ISAE-SUPAERO or TBS Education campuses in Toulouse area.

September to June

Professionnals

- *Continuation of professional activity with an alternating rhythm*

- *Work-study internship*

- *Fixed-term and open-ended work-study contracts*

Apprentices/Students

- *Apprenticeship contract (if under 30, except in exceptional cases) with remuneration and payment of tuition fees by the company.*
- *ISAE-SUPAERO, TBS Education, IRT Saint Exupéry and Midisup support apprentices by mobilizing their networks of partner companies.*
- *Work-study internship or contract*

Training designed with the support of :
AIRBUS, AIRBUS PROTECT, CERFACS, COLLINS AEROSPACE, CONTINENTAL, DASSAULT AVIATION, ESI GROUP, GOOGLE, IBM, MBDA, STELIA, THALES ALENIA SPACE.

Teaching

The training is entirely conducted in English 🇬🇧

- *Links between technique and business*

Development of concrete use-cases

- *Discovery of broad-ranging fields of application*
- *Interactive teaching and practical work (projects)*

Project management (≈60 h)

Project and program management:

Agile and waterfall methodologies, scheduling, PMBok, Value Proposition & business model, Pitch.

Digital and systems engineering:

Data governance, Digital Transformation,
New ways of working,
Cybersecurity and risk management,
Model-Based Systems Engineering.

Artificial Intelligence Internals (≈170 h)

AI technical skills ramp-up:

Data Integration and Exploration, Big Data Processing,

Optimization topics for AI, Machine Learning
and Data Analytics, Sequential Decision Making in AI,
AI certification, robustness and dependability.

Business Aspects of Artificial Intelligence (≈120 h)

Corporate transformation by and for AI:

Introduction to modern AI, The business of data,
Data Value Creation, Change management.

Pratical skills (≈70 h)

Common thread application project.

Funding

- *Apprenticeship, for learners eligible for this scheme*
- *Personal Training Account (Compte Personnel de Formation - CPF)*
- *Transitions Pro schemes (transition and professional retraining)*
- *Pôle Emploi (French employment agency) and/or ForPro Sup*

(scheme of the Occitanie Region) for job seekers

- *Employer: skills development plan, Training operating companies (OPCO), Personal Training Account company contribution, etc.*
- *Agefiph, for people with disabilities*
- *Bank loan / Personal financing*

You are a professional? Discover other needs-oriented training formats

3 Certificates of Advanced Studies
90 hours each

- AI oriented business model design
- Data integration and processing for value creation
- Development & deployment of efficient AI technologies.

Certificates can be financed via the CPF or Tansitions Pro schemes

MON COMPTE FORMATION

TRANSITIONS PRO *Partenaire d'avenir*

10 Training modules
30 hours each

- *AI certification, robustness and dependability*
- *Big data processing*
- *Change management*
- *Data integration and exploration*
- *Data value creation*
- *Introduction to modern AI*
- *Machine learning & data analytics*
- *Optimization topics for AI*
- *Sequential decision making in AI*
- *The business of data*

APPLICATION CONDITIONS

ACADEMIC PROFILE

Engineering or science
graduates with:
- Master's degree or equivalent
- or Bachelor's degree and at
  least 3 years of professional
  experience

The «Project Manager in
Artificial Intelligence and
Data Sciences» professional
certification is also accessible
via a process of Validation of
Acquired Experience (called
«VAE»).

ADMISSION PROCEDURE

- Admission calendar and procedure:

- Educational fees:

- Online application and selection by a jury, based on application file

REQUIRED LEVEL OF ENGLISH PROFICIENCY

TOEFL (IBT)		TOEIC		IELTS		CAE/ FCE		Linguaskill 1
	ou		ou		ou		ou	
88 points		785 points		6.5 points		170 points		170 points

DO YOU NEED A PERSONAL ADVICED ?

YOU ARE A RECENT GRADUATE

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YOU ARE A PROFESSIONAL

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