

**Amadeus  
Nice Sophia Antipolis**

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**2016 Apprenticeship offers**

## ✓ Information sur l'entreprise

Amadeus est le leader mondial des solutions informatiques pour l'industrie du voyage.

Présents à chaque étape du voyage, nous fournissons la technologie qui fait progresser l'industrie, de la recherche initiale à la réservation, de la tarification à l'émission des billets, de la gestion des réservations à la coordination des procédures d'enregistrement et de départ. Amadeus met en relation les acteurs clés de l'industrie du voyage : agences de voyage, tours-opérateurs, compagnies aériennes, aéroports, hôtels, compagnies ferroviaires et bien d'autres. Nous fournissons à ces entreprises les solutions leur permettant de mieux répondre aux attentes des voyageurs et d'optimiser la gestion de leurs opérations.

Nous partageons tous le même esprit d'innovation et l'ambition de dessiner le futur du voyage. Cet objectif, nous l'atteindrons en travaillant avec les meilleurs professionnels du monde – nos collaborateurs, nos clients et nos partenaires. Si vous partagez notre ambition, rejoignez-nous pour dessiner le futur du voyage.

Amadeus Nice Sophia Antipolis est le principal centre de recherche et développement du groupe, il fédère également des activités commerciales et le service client.

Situés entre mer et montagne nos campus offrent un environnement multiculturel exceptionnel.

### Quelques données clés

- Fondée en 1987 Amadeus a construit sa présence mondiale sur un fort ancrage en Europe avec trois sites principaux : Le siège social à Madrid où se concentrent les activités Corporate, le site de Sophia Antipolis près de Nice et le centre de traitement des données à Erding près de Munich.
- + 14 000 collègues dans 195 pays
- + 3800 collaborateurs à Nice Sophia Antipolis, de plus de 80 nationalités
- 18 centres de R&D dans le monde
- 71 Agences Commerciales
- 3.9 Milliard d'euros de chiffre d'affaires en 2015

## ✓ Perspectives de carrières

**Amadeus encourage ses collaborateurs à donner le meilleur d'eux-mêmes.**

**En nous rejoignant, vous aurez la possibilité d'élargir vos horizons de carrière. Si vous souhaitez contribuer à une culture dynamique qui encourage l'ouverture et l'innovation, Amadeus est fait pour vous.**

Nous offrons :

- Une atmosphère stimulante
- Une entreprise internationale et multiculturelle
- Des opportunités de développer vos compétences et de progresser
- Un engagement envers les questions sociales, humanitaires et environnementales

**Amadeus Nice Sophia Antipolis offre une chance unique de travailler, au sein d'équipes projets, sur des solutions complexes et innovantes.**

Un bon niveau en anglais est impératif.

## Apprenticeship: Instant Search Product (62727)

### *Join us and shape the future of travel*

*Shaping the future of travel has always been important to us at Amadeus. Today, with technology getting smarter by the minute, that future is more exciting than ever.*

*We work at the heart of the global travel industry. Amadeus offers you the opportunity to learn and grow and drive your own progression in an exciting and multicultural environment.*

*Our people are driven by a passion for 'Where next?' If you want to shape your career and the future of travel, Amadeus is the place for you.*

**Start date:** Summer

**Duration:** 1-2-3 year(s): apprenticeship

### **Team Description**

The **Search, Shopping & Pricing** (SSP) product engineering group serves the core Distribution business of Amadeus as well as Airline IT e-commerce business and the Rail IT and Travel Intelligence new businesses. We are responsible in particular for the travel Search and Shopping products, enabling users to find and price travel options made from the offerings of full-service carriers, low-cost carriers and railways. It is a multicultural division of 370 people, spread over Nice, Boston and Bangalore.

In the Massive Transactional Search department (MTS), the Massive Application Search (MAS) group is responsible for designing and coding components to the Massive and Instant Search Platform. The team develops plug-in, answering complex requirements where the processing time and the accuracy of the data are always in top priority. As such, this entity is strongly involved in projects for Instant Master Pricer (Kayak, Make My Trip, Odigeo ...) and Instant Flex (Air France, Lufthansa, Air Canada...) as well as in many cross-PEG top priority and critical projects (Featured Results, Affinity Shopper, Extreme Search, Search Transactions Quality Monitoring...).

### **Main Responsibilities**

The platform we have put in place has a great commercial success and we will now focus on making sure we scale over a huge number of clients and as well in Volumes. Therefore we will together improve our already existing monitoring tools to make sure we are always aware of the state of the platform and can take proactive action. The candidate will as well have the opportunity to work on models for capacity planning and putting in place modifications to the application itself to increase scalability, performance and availability. The application is written in C++ and we use MongoDB for data storage and retrieval.

### **Requirements**

UNIX, Linux  
 Knowledge of C/C++/Object Oriented languages  
 Knowledge of Distributed Environments  
 NoSQL, MongoDB  
 JSON, XML, Protocol Buffer, Edifact

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## Apprenticeship: Air & Airport Content aggregation (63115)

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**Start date:** Summer

Duration: 1 year

### Team Description

The **Search, Shopping & Pricing (SSP)** product engineering group serves the core Distribution business of Amadeus as well as Airline IT e-commerce business and the Rail IT and Travel Intelligence new businesses. We are responsible in particular for the travel Search and Shopping products, enabling users to find and price travel options made from the offerings of full-service carriers, low-cost carriers and railways. It is a multicultural division of 370 people, spread over Nice, Boston and Bangalore.

The SSA team is part of the SSP group, and focus on integrating Flex and Award Pricer transactions into the Amadeus online products (AeRE, ARD, XML customers, and Web Services customers).

The team does not only ensure the Revenue and Redemption flow follow-up within the Booking Engine, but also provides key features such as the localization, or the parallelization of central system services calls. Generally the team builds additional business logic, airline oriented, on top of the central system products. This business logic benefits to the UI customers (PINext, WDS, ARD Web) but also E-retail XML customers, and soon Web Services customers (through the implementation of Business Web Services). The team also serves customers having their own Internet Booking Engine, by delivering the Central System Flex Pricer functionalities directly through granular Web Services.

### Main responsibilities

The trainee will propose a state of the art REST json search API for flight travel. The API will allow easy integration of flight search in mobile apps and websites. On top of the API design and implementation the trainee will have the opportunity to create additional business logic hiding the complexity of the search algorithms to the mobile app developer.

The trainee will study and develop a Shopping Web Service aggregating Airport content (activities, services, goods) to standard Airline content

The study part will consist mainly in market research in the airport content distribution area:

- What content do airports propose and how they distribute it.
- What are the existing Open APIs proposed for that?
- What is the market size for different types of content / geographical area?
- What benefit can be expected from integration of the airport content into Fare Shopping products.

The development part could consist in prototyping a Shopping Web Service orchestrating Amadeus Fare Shopping web services and one or several Airport Open APIs.

Generally progressing on the subject will require interaction with innovation team, commercial team, and development team.

**Requirements** : Java, object oriented design, XML, json, REST, http2.0

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## Apprenticeship: Service integration prototype for airline (63113)

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**Start date:** Summer

**Duration:** 1 year

### **Team Description:**

The Impacted Systems and Interfaces department is in charge of all integration activities required to interface airline's applications to Altéa system.

The activities of the team are managed from several Amadeus locations (Nice, London, Sydney,..) and in permanent contact with our customers all around the world, providing unique opportunities in terms of customer facing, worldwide travel and multicultural exchanges.

### **Main Responsibilities:**

As part of our department strategy, we are promoting integration consultancy to airlines. One of the identified area to deliver consulting is on middleware design and integration, including exposing business web services.

One other of our objectives is to familiarize with REST technologies.

Open Java Framework (OJF) is a development application framework, based on Java Open Standards. It was developed by Amadeus, for internal solution development.

Amadeus Cloud Services (ACS) is the Amadeus offer for hosting application, based on the pattern of IaaS (Infrastructure As a Service).

Objective of the internship is to prototype such integration layer (middle ware), based on OJF. This will integrate and orchestrate Amadeus web services, exposing business oriented services, directly consumable by business applications (passengers, agents,...). The target is to have such platform deployed in a cloud infrastructure.

The apprentice, with support of the team will actively participate to the following:

- define the high level specification of the prototype;
- set up the OJF environment;
- integrate the Amadeus technical stack (session management, security and logging);
- build the orchestration layers to meet the functional requirement (exposing RESTFUL APIs)
- validate the prototypes by building a simple end application frame;

The project must comply with our quality standards.

The intern will have the opportunity to acquire following knowledge:

- airline business industry;
- system integration;
- Java application development;
- Cloud & IaaS technologies;
- Amadeus functionality and technologies;
- technical web service skills (Soap/http/REST)

The main area of focus is around capitalization of experience. On top of the prototype, one major deliverable is reusable documentation, to be in a position to support coming customer's integrations: do / don't / best practises/ reusable components/FAQs

## **Team Description :**

- fluent in English: oral & written
- skills in development: java
- web service experience: Soap, xml, http
- REST/JSON experience a plus
- Project Management
- Autonomous

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## Apprenticeship: Product Definition for Project Management Tools (59102)

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**Start date:** Summer

**Duration:** 1-2-3 year(s): apprenticeship

### Team Description

Within the Services & Ecosystem (SEE) organisation, the Services Process Improvement (SPI) team has two main activities:

- Deploying, promoting and providing guidance on project management methodology throughout the organization
- Developing internal topols (analysis, development, testing, deployment, maintenance & support on SEE tools)

We deliver trainings on Methodology and Tools on a regular basis and assist line management and/or project managers and their teams throughout customer project life cycle.

We gather recommendations for and contribute to the improvement of processes and tools.

### Main responsibilities

The apprentice will participate in following activities:

Project Management Process Activities:

- Creation and follow-up on Project Management processes associated with particular objectives or activities.
- Identify and measure key performance indicators to evaluate Project Management process effectiveness and efficiency.
- Develop and promote tools and techniques to increase Project Management process efficiency and improve performance.

Product Definition of Internal Tools and Quality Assurance Activities:

- Analyse requirements and improvements submitted by Amadeus end-users
- Deliver functional specifications and interfaces documentation of the tool
- Define test cases from requirements and write test plans. Ensure traceability with specifications
- Execute the test cases and provide reporting.

### Requirements

- Good knowledge of Microsoft Office Suite : Word, Excel, PowerPoint
- Good knowledge of UML
- Knowledge of Atlassian Suite is a plus (JIRA, Confluence, Stash/BitBucket, HipChat)
- Knowledge of SharePoint is a plus
- Fluent in English

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## Apprenticeship: Search Ranking Models

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The key responsibilities of the SSD (former AS1) team is to integrate wisely MasterPricer and Schedule Availability transaction into the Amadeus online products (AeTM, SELC/SECO, ARDW, AeRE, XML customers).

Beside this the team is in charge of the TravelShopper component being a generic and customizable shopper. TravelShopper provides advanced features about transactions orchestration and content aggregation. This component is a key piece as soon as multi-content shopping is in scope. In other words TravelShopper gives access to Amadeus GDS content, other GDS, LCC content (TravelFusion, LACA/ATAC, LC2A) and rail content through a unique and unified shopping interface.

### **Main Responsibilities**

The internship will focus on finding mathematical models for the ranking of travel recommendations for a specific travel. The internship will analyse the existing models, propose new optimized models, create a proof of concept and design and implement the models.

He will then experiment with those models to see how they behave with real world data.

### **Requirements**

Java, object oriented design

Mathematics

Business Intelligence



## Apprenticeship: Result Streaming API

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### **Main Responsibilities**

The trainee will propose a state to of the art REST API which will allow to stream results as they get available. Today the results are sent to the client like large Metasearch engines and Online Travel Agents when all results have been found and the full result set is known. Sometimes there is a huge delay between when the first results are found and when the last one is available. The idea is to make results available for processing and display to the enduser as soon as it is available.

### **Requirements**

Java, object oriented design, XML, json, REST, http2.0

## Apprenticeship: Search API

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### **Main Responsibilities**

The trainee will propose a state to of the art REST json search API for flight travel. The API will allow easy integration of flight search in mobile apps and websites. On top of the API design and implementation the trainee will have the opportunity to create additional business logic hiding the complexity of the search algorithms to the mobile app developer.

### **Requirements**

Java, object oriented design, XML, json, REST, http2.0

## Apprenticeship: Booking flow redesign with Angular 2 (63026)

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**Start date:** Summer or September

**Duration:** 1-2-3 year(s): apprenticeship

### **Team Description**

The Digital Design & Services (DDS) department manages customer and project bespoke solutions, apart from the functional departments in the organization.

Within this department, Qantas Competency Center (QCC) team is in charge of managing UI web development and delivery for one of our major customers: the airline Qantas.

### **Main Responsibilities**

The aim of the internship is to participate to the biggest redesign project ever requested by Qantas airline.

The trainee will integrate the team in charge of this redesign. He will participate to the migration of predefined part (depending on apprentice timeframe) and work on the overall layer of the project.

The trainee will study and learn the possibilities given by Angular 2 as well as all parts of our technical stack from the server to the client. He will discover the guidelines of J2EE development to implement web applications.

### **Requirements**

Web UI skills are required (CSS, HTML5, Javascript). Knowledge on Angular is a plus.

Java programming within a J2EE environment, including Java Web Application technologies (JSP, Servlet) is a plus.

Fluent technical English

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## Apprenticeship: Desktop and Mobile Booking Engine prototype for airline (62962)

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**Start date:** Summer or September

**Duration:** 1 year

### **Team Description:**

The Impacted Systems and Interfaces department is in charge of all integration activities required to interface airline's applications to Altéa system.

The activities of the team are managed from several Amadeus locations (Nice, London, Sydney,..) and in permanent contact with our customers all around the world, providing unique opportunities in terms of customer facing, worldwide travel and multicultural exchanges.

Activity range covers application scoping, interface identification, project management, customer support, web service integration, functional and technical consultancy.

### **Main Responsibilities:**

e-Retail is Amadeus world famous booking engine that powers up many of Airlines Booking Website. e-Retail is launching a new flavour of its API, following modern trend of REST/JSON protocol and format. This API is designed to be both easy to use and powerful, with the objective to allow airlines to provide a specific end user experience to their customers and their developer community.

As part of our department activity, we are supporting the customers implementing eRetail interfaces, including this new one, which includes:

- product presentations and descriptions
- support of our client's implementations
- help to solve incidents, reproduce issues using an API...

The objective of the internship is to showcase this new API by building sample web applications based on the most popular or trendy web application frameworks (ruby on rails, django, asp .net, AngularJS...). Through this application we aim at demonstrating how to aggregate 3rd party API (Google Maps, TripAdvisor, Uber, Expedia...) to enrich the end user travel experience.

We also expect the intern to build a Mobile version of the booking engine (native mobile app).

Applications will target our test system and should be accessible internally within Amadeus network, for internal usage and demo.

A modern look and feel and a good usability of the tool are key points for its broad usage within implementation teams.

The apprentice, with support of the team, will actively participate to the following:

- Use open source tools (swagger code generator) based on API documentation and delivery to create the application and manage authentication (OAuth2, API Keys) and functional queries.
- Build a site accessible internally and targeting test system (functional aspects of the site will be explained in detail by the team).

- Enlarge the site scope to allow easy comparison of API flavours and explain step by step how to create one (tutorial/demo...)

The intern will have the opportunity to acquire following knowledge:

- Technical web service skills (REST/JSON/https)
- Web services Framework knowledge (Swagger)
- Web site design (http, web server, javascript, css, Angular...)
- Amadeus leading functionality for airlines (PNR, Ticketing, Payment, e-Retail engine)

The main area of focus is around capitalization of experience.

Examples to be constructed need to be commented/documentated extensively to be re-usable by all airlines clients.

The tool developed need to be maintainable and documented.

### **Requirements :**

- fluent in English: oral & written
- skills in development of web applications
- Interested in design and usability of web interfaces (html, javascript, css...)
- Autonomous
- Good communication and team working
- web service experience: REST, Soap, xml, http a plus
- Project Management is a plus

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me=](https://career012.successfactors.eu/sfcareer/jobreqcareer?jobId=62962&company=AmadeusProd&username=)