



**SIMBALS**  
**Château de Thouars**  
**27 allée des petits rois**  
**33400 TALENCE**

## Research Internship Playlist Data Mining

**Contact:** internships@simbals.com

**Duration:** 5 to 6 months

### Company

Simbals is an innovative company founded in 2012 in Bordeaux, France. Our solutions come from many years of research at the University of Bordeaux in signal processing and data mining, illustrated by several international publications or patents. Our mission is to provide the most useful solutions from technology to help the industry providing the best user experience among the huge amount of music data available: cleaning catalogs, automatic tagging, AI and machine learning processes, recommendation and playlisting systems are a part of the possible applications.

### Research Team

You will integrate the Research team, which is aiming at developing new innovative solutions for the music and audio industry, from the initial planning to implementation. For example, research team investigates areas such as audio and music content identification, music recommendation and personalized radios, smart music data, artificial intelligence for music.

### Description

Our mission is to provide the most useful solutions from technology to help the industry providing the best user experience among the huge amount of music data available. Amongst these solutions, we develop technologies consisting of mining huge music data issued from customers such as music editors or music streaming services.

Playlists are now an important way for users to listen their preferred tracks and discover new pieces of music. Work during Internship would consist of mining huge data about playlists, conceiving decision support systems for making or modifying playlists (order, tracks etc.) or analyzing usage of playlists. Furthermore, this internship would also focus on predictive modeling based on usage but also on audio content.

The intern will be encouraged to propose solutions and work in autonomy.

## **Profile**

Master student with background in data science or/and computer sciences

## **Skills**

- Strong knowledge of data mining and machine learning
- Good programming skills (Python, C++ is a plus)
- Strong interest in music
- High motivation and autonomy
- Working knowledge of French language
- Working knowledge of English language