



3 year R&D engineer position in Music recording platform software development at Télécom Paris, Institut Polytechnique de Paris, France.

We are currently opening a **3 year R&D Engineer position** in the **Department Image, Data and Signal (IDS)** of Télécom Paris, within the newly created Institut Polytechnique de Paris to work on the development of a new software platform for remote music recording.

Télécom Paris is one of the Top 4 Engineering Schools in France, member of Institut Mines-Télécom and founding member of the Institut Polytechnique de Paris. Created in 1878, it has evolved to become the leading engineering school in digital technology in France. Its excellent teaching and innovative pedagogy places Télécom Paris at the heart of a unique ecosystem of innovation built upon the interactions between its initial and continuous education, its research center and its two business incubators.

The main objective of the recruited engineer will be to :

- Survey of existing software programs or digital Audio workstations for music recording
- Design, specify and develop a new platform for remote music recording
- Integrate, adapt and optimize existing music tools for automatic annotation
- Design and Supervise the recording of the music database
- Distribute in Open source the music Database and recording software
- Create a data pipeline between the app, the database and the signal processing models

The required expertise for this position include:

- A Master, Engineering degree or PhD in computer science, datascience, machine listening, MIR or in any closely related domain
- 2/3 years of experience in software engineering (software architecture and specification, Python, C/C++, git, linux development tools)
- Good command of (technical) English

Additional expertise on the following topics will be an asset:

- Knowledge of common music recording platforms (Digital Audio Workstations)
- Knowledge in front-end web development (JS / HTML / CSS)
- Knowledge in back-end web development (server-side web languages)
- Knowledge in database administration (SQL / No SQL)
- Knowledge of sound engineering (recording and mixing)
- A previous experience in scientific computation or data processing (e.g. Python Numpy, Matlab, Julia,...) is a plus

Additional desired skills for the candidate include:

- Capacity to work in a team
- Aptitude for Autonomy
- Communication abilities (writing and oral)
- Capacity for synthesis

To candidate or to obtain any further information on the position, please contact Gaël Richard, mail: firstname.lastname@telecom-paris.fr

The position remains open until a suitable candidate is selected.