



<b>Name of the hosting institution in France</b>	Groupe LGM
<b>Name of the host laboratory / research team</b>	Ecole Polytechnique Féminine
<b>Address</b>	3 bis rue Lakanal 92330 Sceaux
<b>Web site</b>	<a href="http://www.epf.fr/presentation-de-la-recherche-epf">http://www.epf.fr/presentation-de-la-recherche-epf</a>
<b>Name of the supervisor</b>	Antoine GAUME
<b>Function</b>	Head of Digital and Engineering Major
<b>Email</b>	antoine.gaume@epf.fr

## Internship offer

<b>Topic of the internship (title)</b>	DataScience and Machine Learning			
<b>Proposed dates of the internship*</b>	<b>Start</b>	2020-05-04	<b>End</b>	2020-11-27

\* The supervisors have indicated the dates proposed are flexible and are able to be postponed subject to COVID-19 border closures.

### Scientific and academic objectives of the internship (detailed description of the internship content, work expected from the intern and expected outcomes):

The purpose of this POC is to develop software for technical event automatic processing in aeronautical maintenance by designing and testing different Machine Learning approaches applicable to NLP (Natural Language Processing) sector. The objective is to automatically sort and enrich technical events in order to optimise the processing time for final operators while respecting important security constraints. The intern will be given the task to write these algorithms as part of Datalku or Matlab Framework and will have to present and justify his results through a meticulous approach.

<b>Name of industrial partner</b>	Groupe LGM
<b>Role of the industrial partner in the internship project</b>	Groupe LGM will be the hosting company, where the intern will work. The internship topic has been designed by Groupe LGM and its academic partner, the French engineering School "Ecole Polytechnique Féminine" but the day to day job will be ensured by a Groupe LGM mentor. The purpose is to obtain scientific results in France, in order to use those results for our Australian branch, helping it to win new projects.
<b>Main contact at the French industrial partner</b>	Xavier Allegrini
<b>Email of contact at French industrial partner</b>	xavier.allegrini@lgm.fr
<b>Main contact at the French industrial partner's branch in Australia</b>	Franck BLOOM
<b>Email</b>	franck.bloom@lgm.fr

## Expected profile of applicant

<b>Level of study</b>	Master's student
<b>Discipline</b>	Engineering
<b>Required qualities, knowledge and skills</b>	You are completing your final year of top engineering school or specialised Master in DataScience/ML and looking for a 4 to 6 month internship. You want to improve your knowledge in DataScience applied to maintenance and you are willing to participate to meticulous studies in a high tech environment. You are familiar with python, ML algorithms, TensorFlow and ideally Matlab.