

Vibroacoustic Engineer (M/F)

France - Engineering - Saint-Ouen établissement HQT

Job Listing Detail :

The future of transportation is already here.

Alstom, with recorded sales of 7.3 billion in the 2016/17 fiscal year, is the world leader in integrated transport systems and continues to push the boundaries of innovation & digital solutions for transportation systems and e-mobility. We are today at the forefront of providing sustainable modes of transport, with the largest range of rail solutions in the market. Headquartered in France and present in over 60 countries, we employ 32,800 people worldwide.

For more information, please visit: <http://www.alstom.com/>

The Alstom Headquarters, based in Saint-Ouen near Paris, is looking for a Vibroacoustic Engineer to join the team. In this role you will participate to the development of sustainable transportation modes, mainly related to rolling stock, on the topics of vibroacoustics. You will participate to the development of products for all regions on the globe and contribute to the R&D programs of Alstom. You will be part of the worldwide network of Alstom acousticians and interact with the many other disciplines needed to the development of the complex product that is a train.

We require rigor, independence, teamplay, creativity, agility. As a part of your job you will travel frequently to test Alstom rolling stock all over the world. In this position you will be in charge of the vibroacoustic design of Alstom tenders and projects. You will also become the reference testing engineer for the team. You must already have strong bases of modal analysis and vibroacoustic testing. Advanced knowledge of at least one testing suite (LMS, B&K, Head, etc) is a strong asset, as well as experience in an industrial environment.

Main responsibilities:

- Support design of trains for offers and tenders as lead vibroacoustic engineer
- Perform standard Vibroacoustics tests, postprocess the data and report to validate prediction models and type tests
- Perform Vibroacoustic simulations for vibroacoustic performances of our products
- Perform advanced Vibroacoustic tests in rolling stock including Transfer Path Analysis, Experimental Modal Analysis, Microphone array testing, etc..
- Lead and manage R&D actions in the context of Vibroacoustics tests for Rolling Stock. This includes management of resources and budget respecting the quality, cost and delay of R&D deliverables
- Liaise with experts in Vibroacoustics and other key domains to gather relevant experience
- Develop creative and innovative solutions

Background:

- Engineering, Physics, Mathematics degree (Msc, PhD or equivalent) related to Vibroacoustics.
- Experience on Vibroacoustic testing and postprocessing with multichannel systems including modal analysis and vibroacoustic transfer functions (mobility, pressure/force,...) is a strong asset
- Management skills to lead R&D actions with a transversal approach
- Good communication skills, pro-activity, team working, strategic vision
- English conversational/writing/reading advanced level mandatory
- French conversational/reading advanced level is preferred
- Experience in an engineering department in an industrial context is a strong asset
- Matlab advanced level is an asset

If interested, please send directly a CV to Damien Nys: Damien.nys@alstomgroup.com
(without doing the process in the Alstom web site)