

Open PhD position in vibration mitigation with intelligent absorbers

POLYTECHNIC SCHOOL OF BRUSSELS

Job description

The objective of this project is to develop intelligent absorbers for mitigating vibrations of aerospace structures. Besides being efficient over a large range of frequencies, the absorbers will also have to require low power consumption, and to be fail-safe. In order to reach this goal, it is foreseen to combine active damping with piezoelectric shunts.

The research will be conducted in close collaboration with other researchers from the University of Liège (Prof. Gaetan Kerschen), and will include both the development of innovative solutions and experimental validations on aerospace structures.

Profile

The PhD candidate should preferably hold a MSc in mechanical engineering or mechatronics, and should have an strong knowledge in vibration theory and in automatic control.

Interested ?

For more information, please contact Professor C. Collette (phone : +32 2 650.28.40 – E-mail : ccollett@ulb.ac.be) - <http://beams.ulb.ac.be>.

Applications should be sent directly to Prof. Collette (ccollett@ulb.ac.be) and should contain a cover letter presenting the motivations, along with detailed curriculum vitae.

Salary : Approximately 1900 € after tax.

Duration of the grant : 4 years.

Reference : 2017/Walinnov_EPBULB

Starting date : June 2017.