

## PhD Scholarship 2018

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Business Division Business Area	Industria & Transporte Smart Systems
Technological platform	e-Maintenance
Scholarship location Province/Building	Gipuzkoa, Bizkaia, Araba, Zaragoza

### SCHOLARSHIP DESCRIPTION

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**Title: Reliability and Maintenance modelling for Smart Industry.**

Smart Reliability and Maintenance modelling for Smart Industry through the development and application of artificial intelligence, machine learning, data mining, modelling and simulation methods and techniques.

Data and information in the industry is growing. This gives opportunities for smart systems, with predictive maintenance for “zero-defect” production, reduced warehouse costs and improved availability with “zero unexpected shutdowns”. For this, new system analysis capabilities and data analytics skills are needed. The objective of the work is the development of artificial intelligence, machine learning, data mining, modelling and simulation methods for the detection, diagnosis and prediction of failures in industrial systems.

Approaches, like deep learning, reservoir computing, echo state networks, association rule extraction, will be particularly considered. The research is carried out within international collaborative projects with industries, research centres and universities.

The candidate will integrate in the Maintenance and Reliability Research Group at Tecnalia, led by PhD Diego Galar.

### REQUIREMENTS:

We look for a profile that meets the following requirements:

- Degree and Specialty: Master in Industrial Engineering or equivalent.

- English language.
- Computing: Matlab, Python, C ++.
- Will be valued: ability to work in a team.

**Further information and applications: <http://bit.ly/2qzPOS0>**