

ICR

OUR
HISTORY

WORKING
LINES

ENGINEERING
SERVICES

R&D

TRAINING

SECTORS

CLIENTS

TEAM

ICR AROUND
THE WORLD



Ingeniería para el Control del Ruido

www.icrsl.com



***Better to be king of your silence
than slave of your words.***

– William Shakespeare

***For all evils, there are two
remedies: silence and time.***

– Alejandro Dumas

***Never break the silence unless
you can improve it.***

– Ludwig van Beethoven

A black and white portrait of Francesc Xavier Magrans, a middle-aged man with dark hair, looking slightly to the right. The portrait is on the left side of the page, partially overlapping a white diagonal line that separates it from the text on the right.

Francesc Xavier Magrans



Ingeniería para el Control de Ruido offers **solutions to sound and vibration problems** that comply with industrial requirements and specifications.

With more than **20 years of experience** in the field of acoustic engineering, we can provide the **latest advances in analytic methods**, proposing the **best solution** to every **vibroacoustic problem**.

From our inception, we have applied our sophisticated expertise on **many national and international projects**, and the success acquired throughout these years has also translated into the **development of new predictive methods**. Our objective is to always have the most suitable analytic tool which adapts to the needs of every situation.

The professional balance between the team means that when tackling a problem, there is an **astute symbiosis** between **theoretical knowledge** and the **most pragmatic point-of-view** when processing experimental data.

Our spirit is practical and enables concrete responses to real problems, whether following our tested analytic methods or in the design of proposed solutions.

ICR was born in 1995, created by experts in the field of vibroacoustics and automobiles.

Since its beginning, the company adopted the **motto “the science of silence”, recognising acoustics and vibrations as fully evolving fields of science.**

Throughout its history, **ICR has focused its activity on the development of testing and calculating solutions** at the cutting edge of technology, with the fundamental aim of resolving real problems with practical solutions.

The company style is **complete transparency**, publishing its methods in international magazines.

Each **multinational** contract attests to their subsequent success: CAF in Spain, Alstom in France, Hyundai in Korea and CSR in China, and their current alliance with Chinese multinational Ts-Tech has allowed ICR to consolidate their growth on the international market.

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The majority of ICR's efforts focus on the development of new predictive and analytical methods. There are three core areas on which its services are based:

ENGINEERING SERVICES
R&D
TRAINING



WORKING LINES

ENGINEERING SERVICES

All our clients receive the **highest amount** of attention and benefits from **individual treatment** and an **extensive professional experience**. Our objective is to provide practical solutions to the sound and vibration problems diagnosed, while also anticipating and avoiding them in the design phase.

Every aspect is handled uniquely, choosing the **most suitable type of analysis** and utilising the best methods in each case: whether through standards found within the field of acoustic engineering or through analytic methods developed by ICR.



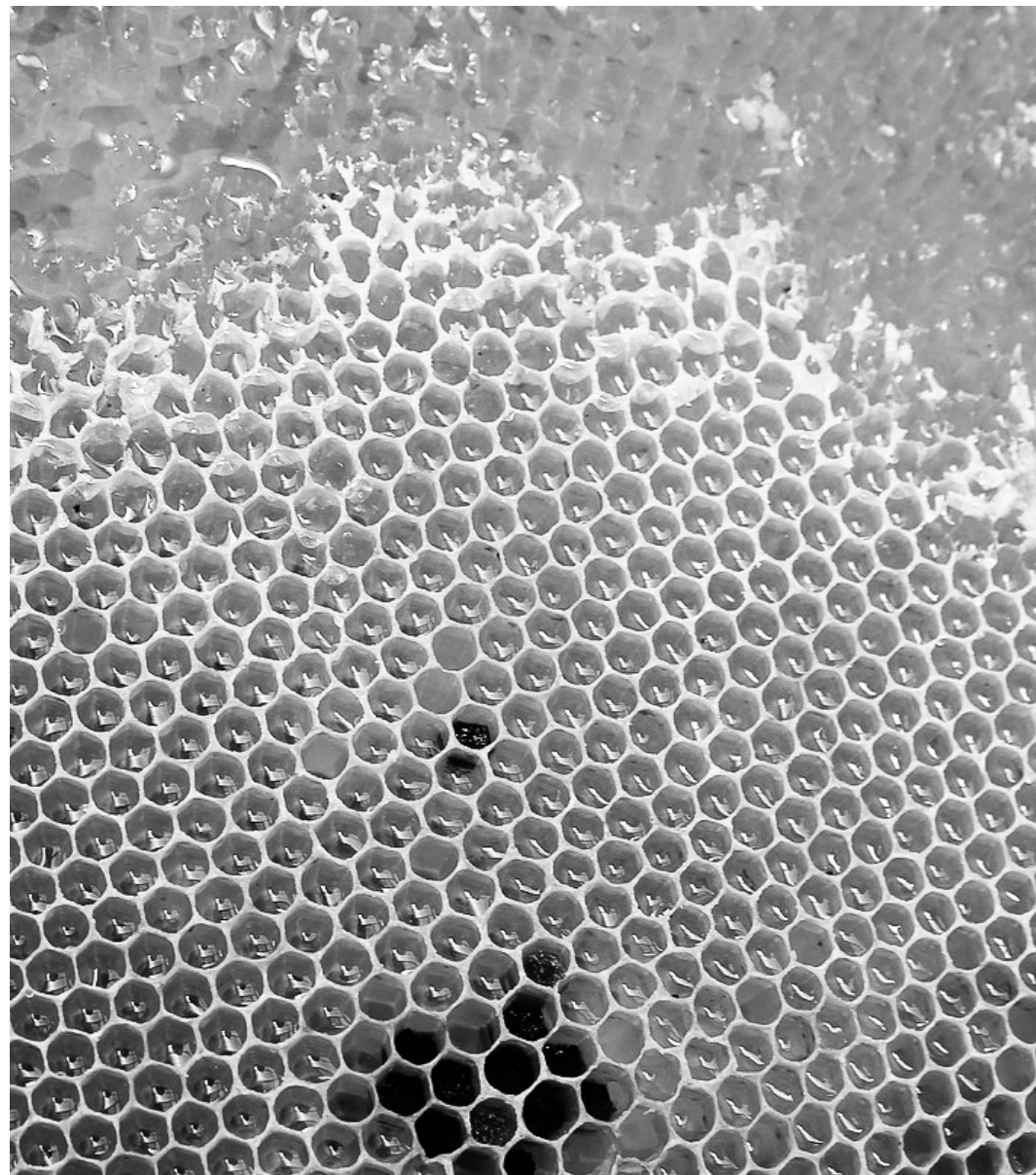
ICR dedicates a large part of its efforts to the **research and development of new predictive methods** with the purpose of applying the most suitable approach to reach a solution, whether at an experimental or theoretical level.

Participation in national and European projects is paramount to their work.

R&D

ICR have made **important advances** in the field of **Advanced Transmission Path Analysis for sound and vibrations**, the applications of **Model Inversion Methods** for industrial acoustic problems, studies on vibrations in wind turbines using **Operational Modal Analysis (OMA)** and in the development of numerical methods using **computational aeroacoustic calculations**. At the same time, it also creates *software* implementing the methods developed.

Some of these advances have been recognised by the **publication of articles** in the **most prestigious scientific magazines** in their field (e.g. Journal of Sound and Vibration, Applied Acoustics, Journal of Computational Acoustics) and by their renowned **presentations and continued presence at numerous international conferences** (e.g. Internoise, ICSV).

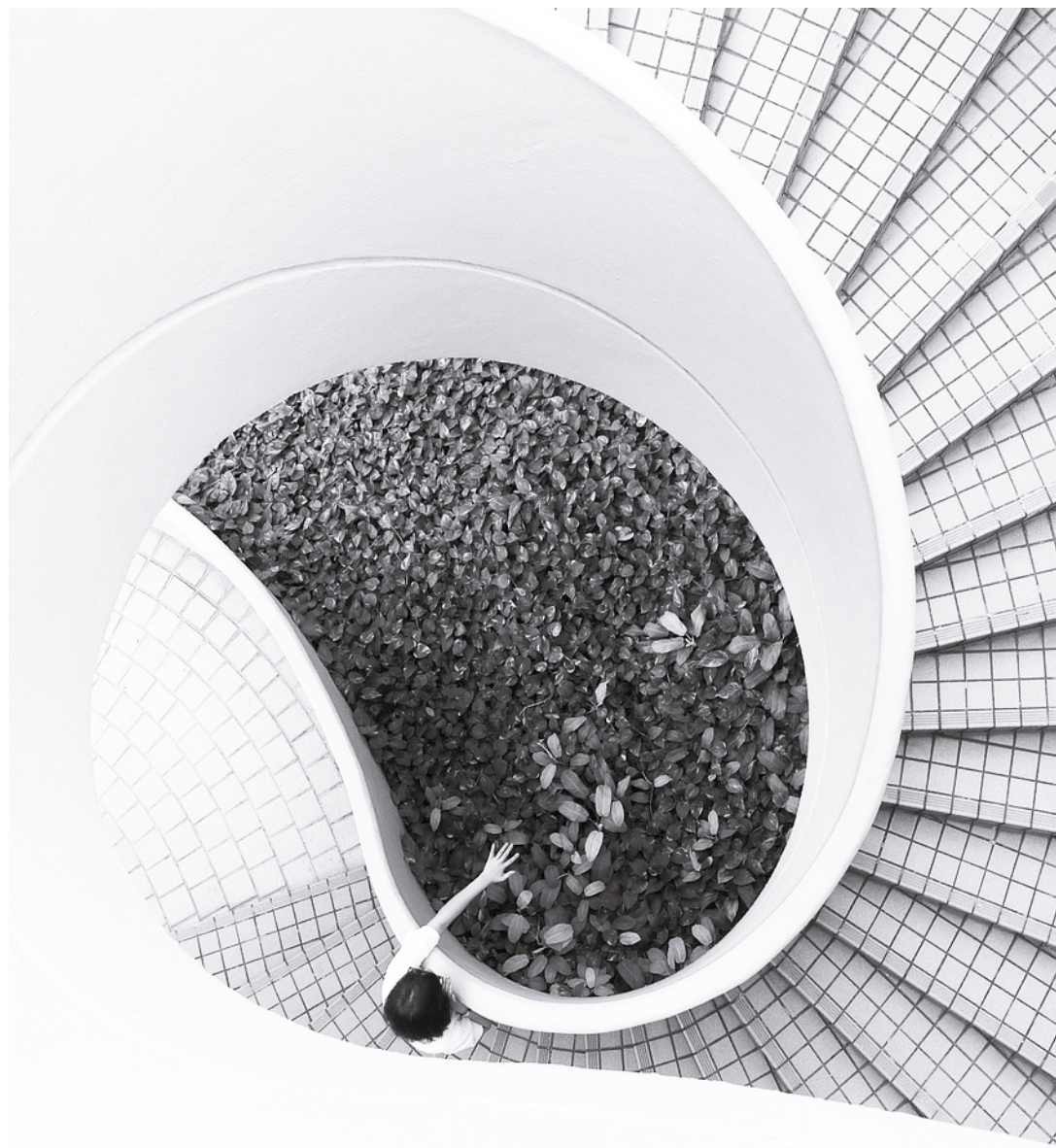


TRAINING

ICR gives classes in acoustics and vibrations which are custom designed for different levels of knowledge and expertise: whether for private companies, professional schools or postgraduate courses organized by universities.

Courses on:

VIBRATIONS
BASIC ACOUSTICS
BUILDING ACOUSTICS
INDUSTRIAL ACOUSTICS
ADVANCED ACOUSTICS
AEROACOUSTICS



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ENVIRONMENT



CONSTRUCTION



RAILWAY



AUTOMOTIVE



INDUSTRY



WIND



In the vibroacoustic field we provide solutions to these and many other sectors.

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FRANCESC XAVIER MAGRANS
MSc in Physics.

In the sector of vibroacoustics since 1972.
At ICR since 1995.

Sectors: All vibroacoustic sectors.
More than 100 references to his publications,
including advanced vibroacoustic books.



PERE VICENS RODRÍGUEZ
Image and Sound engineer.

At ICR since 1995.
Sectors: Testing, ATPA, creation of software,
railroad, environment, training, etc.
Publications in international journals on
OMA and ATPA vibroacoustics.



ESTER CIERCO
MSc in Telecommunications Engineering.
At ICR since 2011.

Sectors: Railway, ATPA, industry, environment,
testing and software.



ROGER SERRA
Higher Aeronautical Engineering by the
Polytechnic University of Catalonia.

In ICR since 2017.
Sectors: R + D, Structural Dynamics, Modal
Analysis, Vibrations, Testing, Software
Development, etc.
Publications in international journals.

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ALBERT ISNARDO

Image and Sound engineer.

At ICR since 2008.

Sectors: Testing, environmental simulation models and software development.



ALBA GRAS

Image and Sound engineer.

At ICR since 2014.

Industrial sector making IT models for environmental noise and direct consultancy.



RITA CAMINAL

MSc in Physics.

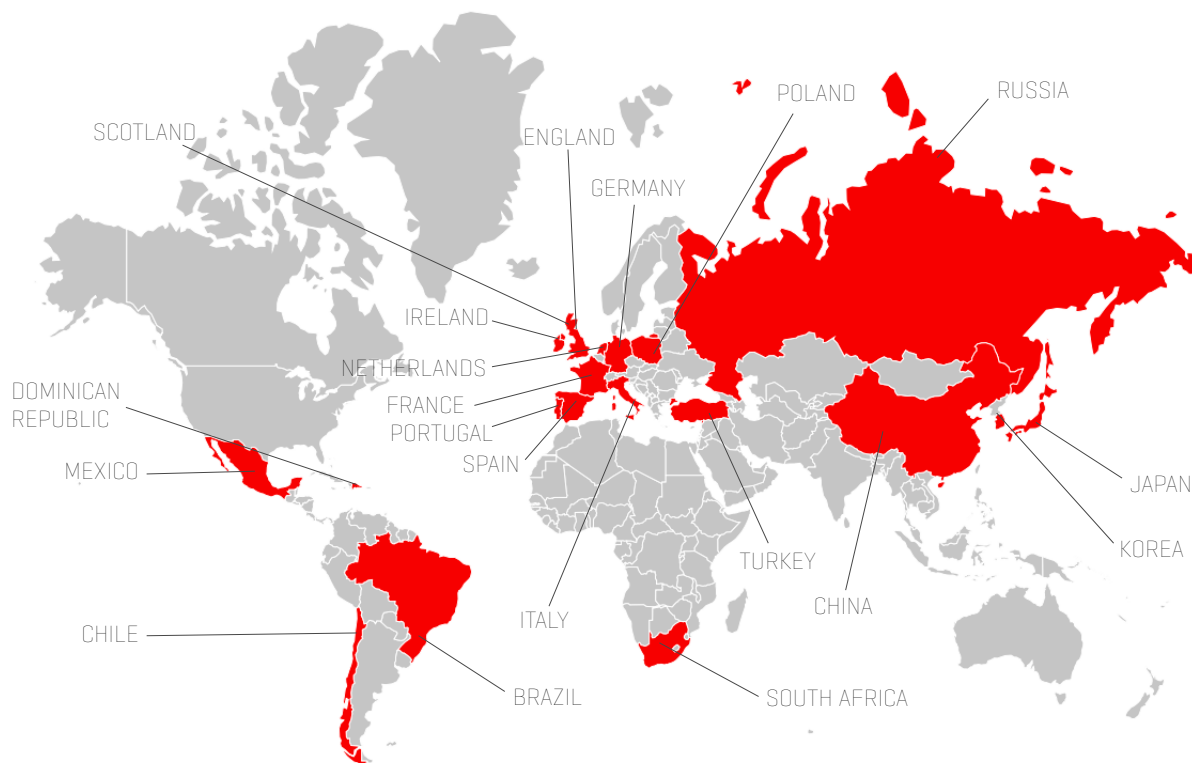
At ICR since 2012.

Sectors: Railway, R&D, vibroacoustics on auxiliary equipment, silencers, measurements, outside and inside noise, etc.

ICR's team is constantly growing by incorporating highly qualified professionals in order to satisfy their customers needs.



TEAM



ICR is a small company with tremendous bang-for-buck potential, whose compact team size and delivery allows for greater flexibility and mobility around the world, and underlined by an exceptional technical quality and an internationally proven record of commercial success.

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