



## Training and development tailored for industry

The Cambridge Centre for Smart Infrastructure and Construction (CSIC) offers tailored and open training courses on distributed fibre optic sensing (DFOS), also known as Brillouin sensing. The courses are developed and delivered by the leading UK specialists in the use of DFOS for geotechnical infrastructure monitoring.

### What is distributed fibre optic sensing?

DFOS provides an innovative, economic and effective solution to performance and health monitoring of geotechnical infrastructure, such as deep pile foundations. The technology generates continuous strain and temperature measurement using optical fibres attached to, or embedded in, structures.

It provides highly comprehensive data outputs, potentially replacing conventional, single point sensors.

### Open courses

Our open courses cover all aspects of applying DFOS to civil infrastructures and contain real examples of full scale monitoring projects.

Courses include:

#### **Introduction to DFOS for geotechnical infrastructure monitoring**

Demonstrates how DFOS is implemented and provides an overview of DFOS capabilities and the opportunities it can offer.

#### **Pile testing using DFOS**

Covers the installation of DFOS onto piles and thermal piles, data processing, data interpretation and engineering back analysis, illustrated with real examples of full scale pile tests carried out by CSIC.

### Get in touch

We welcome the opportunity to provide you with a proposal for your project.

Please contact us to find out more.  
Dr Cedric Kechavarzi, Training Manager

*"I would like very much to thank you all for the efficient and informative training we had in Cambridge. This was a truly amazing experience and it was great learning with you. I really hope that this training is just the first of a series."*

Alessandro Domenino, Building Works Supervisor  
(GS-SE-CEB), CERN