



Installation and monitoring services

The Cambridge Centre for Smart Infrastructure and Construction (CSIC) designs and installs innovative sensing systems for civil construction design validation and structural health monitoring. Many of our sensors can be embedded within structures during fabrication – for pre-fabricated concrete members, such as tunnel segments, as well as piles, diaphragm walls and bridge components. Sensing systems can also be retro-fitted to existing structures.

Pile foundations

Our sensors provide unique insights into the end-bearing and shaft resistance of a pile, giving continuous strain information along the whole length of the pile. This can help in a range of applications including:

- design validation through pile testing (using reaction systems or load cells)
- geothermal pile design and performance validation
- design validation when re-using existing piles
- bending effects can also be identified and quantified

Our services

CSIC has extensive experience of working with infrastructure designers and constructors in the use of innovative sensing systems. Our state-of-the-art, best-in-class and award-winning measurement systems have been selected for their precision of measurement and reliability in use.

CSIC's trained engineers can provide a comprehensive range of services:

- designing the sensor installation
- installing the sensors on site
- processing and analysing the data produced during a monitoring campaign
- promptly delivering an interpretive report highlighting the project's findings

CSIC is happy to engage with you either as a primary contractor or subcontractor.

Equipment selection and training

CSIC can help you select equipment and sensors for your project. We are also able to provide your staff with practical training in the use of sensing systems at our state-of-the-art facility in Cambridge.

Get in touch

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

Please get in touch to find out more.

Philip Keenan
CSIC Business Development Manager
E: info@csic-sense.co.uk
T: +44 1223 746976
W: www.csic-sense.co.uk