Successful monitoring of ground behaviour and building response to ground movement is a difficult task requiring years of expertise. BRE has over 50 years experience in the development and use of geo-technical monitoring instrumentation. Many of the devices now widely used in industry were originally developed by us.

**WHAT WE PROVIDE**

- we can supply high quality instrumentation and install it so that it will work reliably on site over many years
- we can provide simple read out devices or integrated monitoring systems
- we write software for processing your data and help you interpret and act on the results

**TYPICAL PROJECTS**

- monitoring buildings affected by heave, subsidence and lateral movement
- checking the performance of foundations, earthworks and asphalt liners
- monitoring the safety of buildings threatened by collapse of old mines and landslides
- monitoring tunnel movements
- monitoring shrinkable and expansive clays and tree and shrub species
- monitoring movements caused by nearby construction

**CASE STUDY**

BRE was commissioned to monitor the Mansion House in the City of London as it was affected by movement during construction of a tunnel for the Docklands Light Railway. We installed a comprehensive monitoring system which included electro-level tilt meters and water level gauges to measure differential vertical movement, invar-wire extensometers to determine wall movement, load cells to monitor tie bars loads and thermistors to monitor temperature. The monitoring system transferred processed data to consultants offices by telephone line so that the tunnelling works could be controlled hour by hour.

For more information
T +44 (0) 1923 664200
E enquiries@bre.co.uk
www.bre.co.uk

www.bre.co.uk