



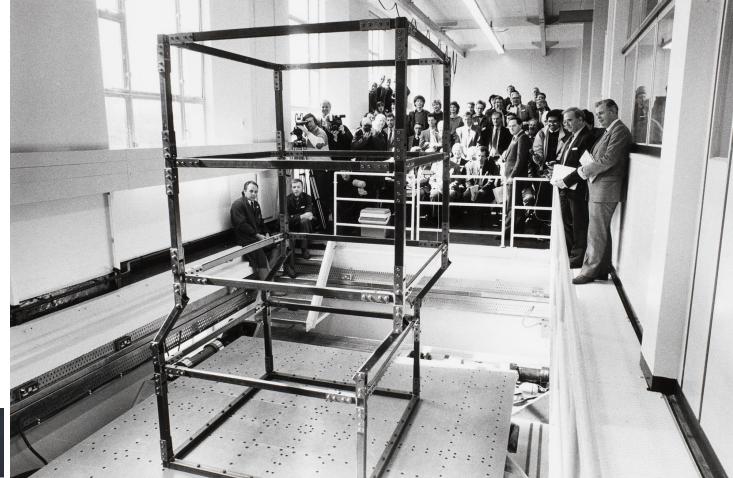
Inspired infrastructure for better living

UKCRIC Facility Showcase Soil-Foundation Structure Facility

Prof. Anastasios Sextos

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Bristol Earthquake Table







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BLADE Earthquake Table



SCOTT

ARUP





Inspired infrastructure for better living



Diversity of BRISTOL

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GT/

Soil Pit

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#R17EBA

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6x4m shaking table, 50t payload, 2.5DOF excitation
capable of meeting BELLCORE test standards
peak acceleration at 2g
maximum frequency of 50Hz

STRIDE TREGLOWN

UKCRIC

TEST HALL - HEXAPOD, SHAKING TABLE & TEST PIT PROJECT: SOFSI, LANGFORD

Shaking Table

> CLIENT: UNIVERSITY OF BRISTOL DATE: 16.06.2020



50t Shaking Table Large-scale foundation, component and structural testing Use of a soil box ("shear stack") Perform Hybrid Testing

Instrumentation, Visualization & Monitoring

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1D accelerometers + 3D displacement Infrared markers 5 infrared cameras

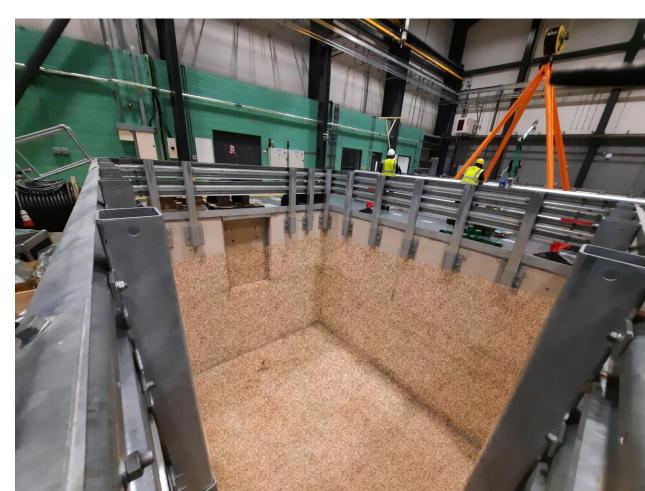
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- a 6mx5m test pit with a depth of 4m
- strong floors for mounting two1MN pseudostatic actuators (1000mm stroke)
- 1MN dynamic actuator (500mm stroke)
- provision for additional actuators depending on project needs

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1mx1m high performance (10g) shaking table
6DOF excitation up to 13g in 1D
500kg capacity

SERVOTEST

Wide range of industrial applications.

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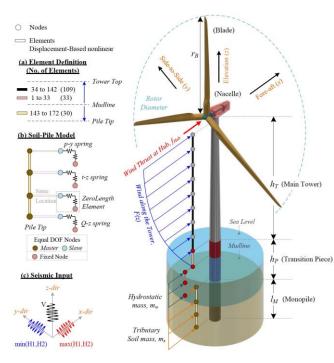
University of

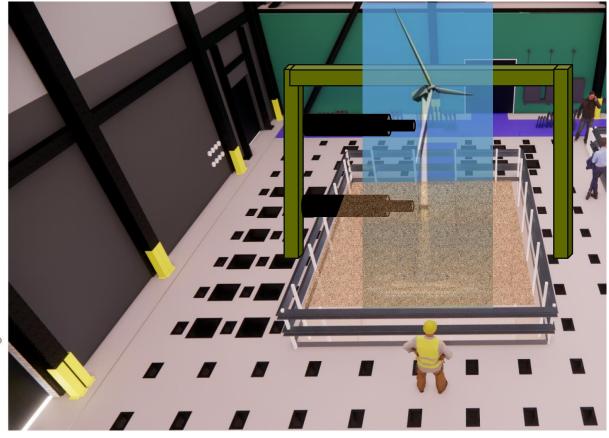
Hexapod

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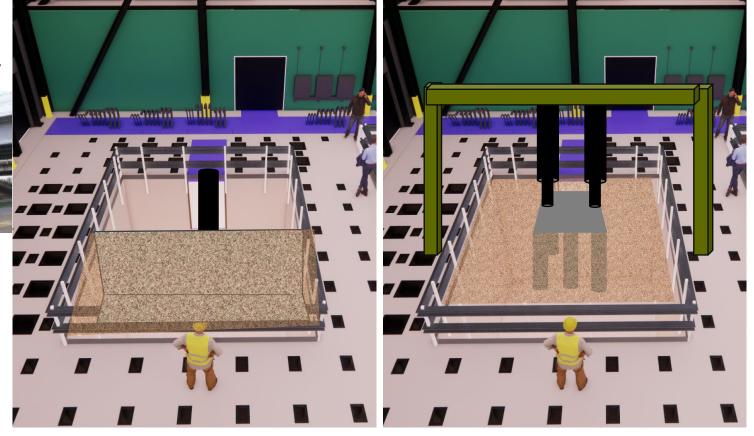




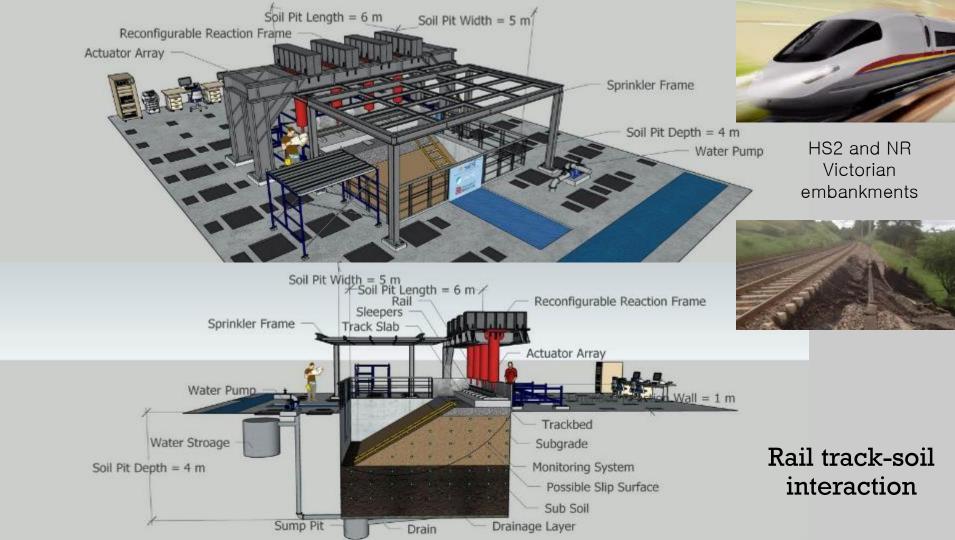
Offshore Wind Turbines

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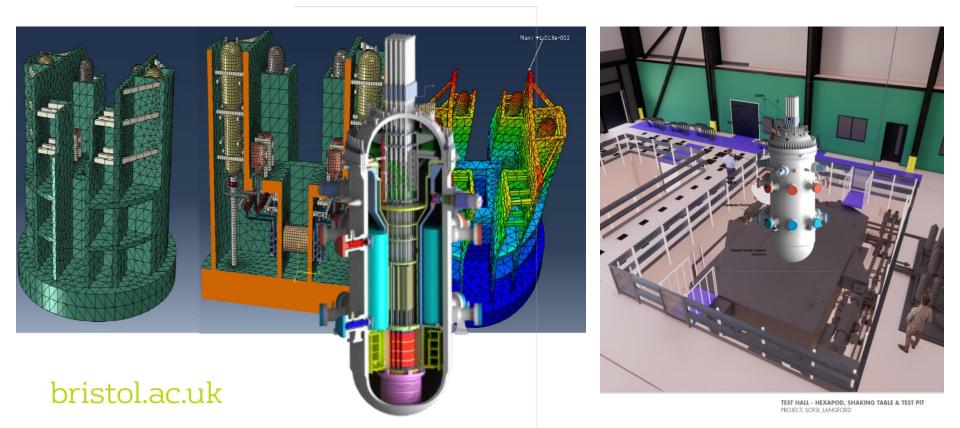


Bridge abutments, scour, in-soil bristol.ac.uk earth pressure monitoring Kinematic pile group interaction





Small Modular Reactors







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