TIMOTHY JOHN HETHERINGTON



POSITION
Director

QUALIFICATIONS
MEng
Chartered Structural Engineer
MIStructE
Approved Certifier of Design

PRINCIPAL EXPERIENCE SUMMARY

I have thirty years of experience in the construction industry, including work both on-site and the design office, and covering a wide variety of disciplines, ranging from site investigation and ground remediation to the detailed structural design of very large buildings and in roles ranging from Graduate Engineer to Company Director.

My endeavours have covered both public and private sector work, and have included signature architecture; historic buildings; structural steelwork; metal fabrication and numerous special projects, often in steel, plus a large volume of the more general everyday engineering that typically forms the workload of UK practices.

I established Applied Engineering Design (AED) Limited as a sole practitioner in 2008 and ultimately grew the firm to comprise three offices and twelve staff. I now work as a sole practitioner again, which I am finding very enjoyable. Among other awards, my projects at AED won a RIBA Award in 2016 and were shortlisted for the Structural Awards in 2018.

I have previously served on the Research Panel of the IStructE and the Board of Glasgow Sculpture Studios. I current serve on the Sustainability Panel of the IStructE.

EXPERIENCE RECORD

As Director and/or structural lead, with a commensurate range of experience and responsibility:

Educational/health building projects

King's Buildings Nursery, Edinburgh University:

New children's nursery building; cross-laminated timber structure, reinforced concrete suspended ground-floor slabs, piled foundations.

New student accommodation for Fettes College, Edinburgh:

New student accommodation in reinforced concrete, masonry and steel.

Aberdeen Sports Village:

Long-span steelwork, reinforced concrete, facades, vibration studies, spread

foundations, contaminated land, ground improvement.
[RIBA Award winner 2010]

Stobhill ACAD Hospital:

Steelwork, composite metal-deck floors, medical physics provision, piled foundations.
[RIBA Award 2010]

Historic building work

The Ross Fountain, Edinburgh:

Complete dismantling, restoration and reconstruction of Category A listed monument.

The National Gallery, The Mound:

Repairs and maintenance to historic timber, cast and wrought iron structure.

Feasibility studies for remodelling of Scottish Collection, provision of new part-underground office space.

HBOS Lloyds The Mound:

Repairs and maintenance to historic fabric of major Edinburgh landmark building.

Jupiter Artland:

Extension to historic buildings to form enlarged café.

Commercial/residential projects

S2 residential flats at Western Harbour, Edinburgh:

Seven-storey building frame design, structural steelwork, prefabricated timber structures, reinforced concrete, piled foundations, progressive collapse.

New brewery, Stewart Brewing, Loanhead:

Steelwork frames, facades, ground improvement, concrete industrial ground floors, contaminated land remediation.

UCB, Bathgate factory extension:

Steelwork, portal frames, reinforced concrete, retaining structures.

Numerous structural defect assessments on period properties.

Arts projects

MIMA Middlesbrough:

New art installation to form entrance gateway to gallery.

European Championships 2018 Gateway structure

Signature entrance structure/art object for athletics championship.

The Island Gallery:

New outdoor arts space, Inverness College Campus; reinforced concrete.

Anthony Gormley, “6 times”:

Assessment, reporting and recommendations for resolving structural issues with cast-iron artworks in the Water of Leith.

Major public art projects with Phyllida Barlow, Anja Gallaccio, Nathan Coley, Sam Durant, Charles Avery and others.

Special structures/materials

Tensile and lightweight structures projects such as school facilities, shelters and sports structures:

Numerous temporary, limited lifespan and permanent projects using structural fabrics,

aluminium and steel.

Kelvingrove Bandstand Extension, Glasgow*:*

Seasonal extension to historic bandstand, steel and fabric.

The Tea Hut, Stonefield, Tarbert:

Design and detail of structural glass and steel structure projecting out over the sea loch on a steel track; reinforced concrete foundations, rock anchors and a polypropylene sliding bearing mechanism also featured in design work.

Walter Scott Museum, Abbotsford:

Moving wall/door and supporting structure; glass design for icehouse roof.

To the Bramley Family of Frestonia:

Steel and GRP, gilded, 6m high sculpture on the roof of a building in North Kensington, London.

Civil engineering projects

Blandfield development:

Complex replacement of 145m of failed masonry retaining structures over a live railway line in Edinburgh. Principal consultant, client advisor and project lead.

Stewarton River Works:

Repair works to river revetment.

Magicwell House:

Works to stabilise historic masonry retaining structures.

Cullet pens, OI Glass:

Bulk storage bins for OI Glass, Alloa.

Temporary works design

Wall removals projects:

Domestic, commercial; internal external; propping, supporting, bracing measures.

River crossing works:

Support for contractor-access; temporary culvert works; anti-scour measures to riverbank.

Scaffolding design and checking:

Checking of scaffolding design for renovation of major historic UK banking headquarters

Design of numerous minor scaffold works for building alterations

Expert witness services

Provision of expert witness services including:

Case type	Role	Value
Major infrastructure works	Assistant	£250M
Tall mixed use buildings	Expert	£25M
Public health buildings	Expert	£5M
Sheet & tubular piling	Expert	£1.5M
Private housing	Expert	£1M
Scaffolding	Expert	£0.5M
Site drainage	Expert	£0.5M

Other

Green oak structures in Argyll and East Lothian
Access and equipment platforms for the telecommunications industry.
Routine alteration work on UK building stock with a bias towards the Georgian and Victorian housing types common in central Scotland.