



lewis bradford
CONSULTING ENGINEERS



Robert Lane

**Associate and Shareholder
Christchurch Office**

BEng (Hons),
University College Cork, Ireland
MSc (Advanced Structural Engineering)
Imperial College London
PGCertEng (Earthquake)
University of Canterbury
CEng MStructE
Institution of Structural Engineers, UK

Publications:

Practical examples of using qualitative assessment methods to assess the earthquake risk of historic structures in the Christchurch area - 2014 - New Zealand Society for Earthquake Engineering



Professional Experience and Affiliations

Associate and Shareholder
Lewis Bradford, Christchurch Office (2018-present)
Associate
Lewis Bradford, Christchurch Office (2017-2018)
Senior Structural Engineer
Lewis Bradford, Christchurch Office (2013 -2017)
Structural Design Engineer,
URS New Zealand, Christchurch Office (2012-2013)
Structural Design Engineer
Alan Baxter and Associates LLP, London, UK (2008-2012)
Structural Design Engineer
RPS Group, Dublin, Ireland (2006-2007)

Areas of Specialist Expertise

- Seismic assessment and strengthening of existing buildings
- Alterations and upgrade to historic structures
- Design management and delivery of structural design projects

Major Project Experience

The Youth Hub
New 3,500m² city centre hub for the young people of Christchurch. Strong co-design process for a variety of low embodied carbon engineered timber framed buildings

Dolomite Point Redevelopment Project
New feature engineered timber visitor centre at one of the South Islands most visited tourist locations

PPP3 – Shirley Boys' and Avonside Girls' Schools
Lead structural engineer for new 20,000m² secondary school campus catering for 2,500 students. Includes two storey teaching spaces, triple gymnasium and performing arts complex

Christchurch Boys' High School - Assembly Hall
Lead structural engineer for new 1,300 seat architecturally designed Assembly Hall and performance space

CIAL Courier Post
Lead structural engineer for new 12,000m² freight forwarding facility at Christchurch Airport

92 Lichfield Street, Christchurch
Structural assessment and strengthening works design for historic three storey unreinforced masonry commercial building in central Christchurch

St Bede's College - Gymnasium
Lead structural engineer for seismic strengthening and two storey extension to existing gymnasium





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Major Project Experience (continued)

Christchurch Girls' High School

Seismic assessment, repair and strengthening to various school buildings on site with challenging ground conditions including comprehensive seismic upgrading to existing four storey main teaching block

St Bede's College - Gymnasium

Lead structural engineer for seismic strengthening and two storey extension to existing gymnasium

Scott House

Structural design for high end residential dwelling in central Christchurch including deep bored insitu concrete piles due to challenging ground conditions

Christchurch Boys' High School – Deans Farm Buildings

Lead structural engineer for seismic assessment and repair to historic 1880's farm buildings including conversion to a school museum and uniform store

Christchurch Boys' High School – Main Block

Seismic assessment and strengthening design for existing 1926 heritage listed Main Block including strategic advice to the Ministry of Education around building upgrade options

Department of Conservation, Christchurch

Seismic evaluation and strengthening for various DoC heritage buildings in the Canterbury area including the Godley Head and Ripapa Island sites

Hickory Bay House, Banks Peninsula

Structural design for high end residential dwelling in remote site. Included custom design of native feature timber trusses

CoCA Repair and Refurbishment

Structural assessment and strengthening for existing 1960's reinforced concrete art gallery including assisting with insurance settlement resulting from earthquake damage

Otakaro Orchard and Information Centre

Lead structural engineer for new part steel framed, part adobe brickwork building including a green roof located in central Christchurch

Kaikoura Memorial Hall

Seismic assessment and strengthening design for existing hall building located along Kaikoura shore front

