



## Mario Galvez

Senior Structural Engineer

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### Qualifications

Bachelor Structural Engineering

Master of Engineering Science

### Professional Experience

10 years of experience in Structural Design,  
Researching & Lecturing

### Profile

Senior Structural Engineer with a Master of Engineering Science in reinforced concrete buildings under earthquake action; both degrees from the most prestigious university in Latin America. High degree of initiative for design and construct projects, seven years of experience in structural design and more than two years of experience in mining projects in Australia. Advanced user in structural and programming software. Four years of experience as Lecturer in Chilean Universities.

His responsibilities have included:

- Structural Design in reinforced concrete, steel, post tensioned slabs.
- Seismic Designer.
- Site Supervision.
- Lecturer.

### Key areas of expertise

- Steel Design.
- Reinforced Concrete Design.
- Structural Analysis.
- Worldwide codes such as AS/NZ (Australia/NZ), AISC, ACI318, NCh (Chile), UBC, IBC, ASCE, ASME, DIN, ASTM among others
- Structural Softwares such as MICROSTRAN, SPACEGASS, RAPT, RAM CONCEPT, STRAND7, LIMCON, TEDDS, SAP2000, ETABS, MATLAB, MATHCAD.
- Programming.
- Mining.
- Seismic Design.
- Education.

## Key Projects

John Curtin School of Medical Science (Canberra)

Structural Calculation for building refurbishment (steel, timber, masonry).

NGA Warehouse (Canberra)

Post-tensioned concrete slab calculation (using RAPT software).

Constancia Project (HudBay Perú S.A.C.)

Structural Design using Australian codes (concrete, steel, platework, foundations).

North Goonyella CHPP Upgrade (Peabody Energy, Australia)

Structural Design using Australian codes (concrete, steel, platework, foundations).

KME Extension Project (Rio Tinto, Australia)

Site Engineer.

NEC Colton (Northern Energy Corporation Limited, Australia)

Structural Design using Australian codes (concrete, steel, platework, foundations).

Oaky Creek - Moisture Reduction Works - EPCM (Xstrata Coal Queensland)

Project Engineer preparing tender documentation (scope of works, engineering specifications, design criteria).

Oaky Creek MiniMax Project (Xstrata Coal Queensland)

Project Engineer preparing tender documentation (scope of works, engineering specifications, design criteria).

Precast reinforced concrete tunnel for gases removal system in FeMo Plant (MolyMet, Chile).

Project Engineer preparing tender documentation (scope of works, engineering specifications, design criteria).

SxMo-ACC Plant cost estimation (USD 15 million approximately)

Full Plant construction estimation.

Copper Concentration Plant Paving (MolyMet, Chile).

Project Engineer preparing tender documentation (scope of works, engineering specifications, design criteria).

Coemin Industries (Santiago, Chile)

Steel platforms, connections, base plates and foundations design.

Coeur Project – Processes Plant (Martha Mine, Argentina)

Steel platforms for tanks, steel tanks, base plates and foundations design.

Breaking, Crushing, Classification and Packed FeMo Plant (Molibdenos y Metales S.A., Chile).

Steel platforms design.

Effluent Treatment Plant (Doña Inés de Collahuasi Mine, Chile).

Steel platforms, sheds, pipe racks, reinforced concrete design such as foundations, tanks and foundation slab design.

Compressor Foundation, Vibration Analysis (Codelco, Chile)

Vibration analysis for compressor foundation using the finite element method design

Seismic Risk Research (Chile)

Thesis Advisor

Implementation of Genetic Algorithms to Structural Design

Thesis Advisor

ILO Project (Southern Peru, Peru)

Steel, reinforced concrete design

Sulphide Leach Project (BHP Billiton, Chile).

Steel, reinforced concrete design

### Career History

Dec 2013 – Jul 2014

Company: Advanced Structural Designs

Position: Structural Engineer

Dec 2010 – Apr 2013

Company: Ausenco (Brisbane)

Position: Civil/Structural Engineer

Nov 2008 – Aug 2010

Company: Molibdenos y Metales S.A. (Chile)

Position: Senior Project Engineer

Mar 2005 – Nov 2008

Company: Universidad Diego Portales (Chile)

Position: Professor and Independent Engineer

Sep 2004 – Mar 2005

Company: Fluor - Chile

Position: Civil/Structural Engineer

Mar 2002 – Sep 2004

Company: Pontificia Universidad Catolica de Chile

Position: Engineering Student

Jan 2002 – Feb 2002

Company: BHP Billiton

Position: Engineering Student