



PATRICK MANN & ASSOCIATES

Extreme Loads & Structural Risk Engineers

Position: Senior Civil / Structural Engineer

Overview:

Patrick Mann & Associates Ltd is a specialist risk engineering consultancy based in Cheshire. Our current project portfolio includes the structural design of high-profile developments throughout the UK and worldwide against extreme load events. Due to the continued expansion of the business, we are keen to recruit a high calibre Senior Civil/Structural engineer to join our team.

Requirements:

Patrick Mann & Associates Ltd provide design support to major consultancies, contractors and manufacturers in order to enhance their structural designs to resist extreme load events, including explosions, weapons effects, earthquakes and hurricanes.

The candidate shall have:

- A relevant Civil or Structural Engineering degree
- A minimum of 5 to 10 years postgraduate experience and a sound grasp of steel and concrete design
- Chartered Engineer status (MICE or MStructE) or experience capable of passing CPR
- Experience of and ability to lead teams, and working with clients to develop innovative solutions to complex problems
- A good understanding of commercial aspects of a project
- Outstanding written and verbal communication skills
- Previous knowledge of following skills is desirable but not essential:
 - Blast assessment & design
 - Seismic assessment & design
 - Non-linear finite element analysis

Duties & Responsibilities:

As a company we pride ourselves on our dynamic and highly successful team. Your duties will include managing the delivery of projects, including liaising with clients and supervising and developing a team of junior engineers.

Project responsibilities will include the engineering analysis and design of exciting projects involving new and existing structures and facilities. This may include:

- Preliminary design studies for Landmark structures
- Detailed design studies in support of D&B contracts
- Detailed design of novel facades
- Advanced FE analysis of structures, including non-linear progressive collapse and time-history analyses
- CFD analysis to determine the blast hazard on structures
- Live blast testing of design solutions



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- Vapour cloud explosion hazards refinement studies
- Preparation of technical reports

Examples of recent projects include:

- Preliminary design of security enhancements to UK mainline railway station
- Detailed design of the protective hardening of the extension to a Terminal Building at a major UK international airport
- Blast effects analysis and detailed design of protective hardening of a new police headquarters building in the Singapore
- Detailed design of the new INEOS headquarters at the Grangemouth petrochemical complex to resist accidental explosions
- Detailed design of the structural glazing within the Crossrail extension of Paddington stations
- Blast design and live blast testing of a novel curtain wall facade system for new high risk government facility
- Blast effects analysis and preliminary design support of major hotels in the Middle East
- Seismic design of critical equipment to be installed within a new MoD facility

What Do We Offer?

We offer a dynamic challenging job with international focus in a pleasant working climate; flexible working conditions; and a competitive salary.

We offer a commitment to developing our engineers, and consequently place a strong emphasis on training and professional development.

We offer the potential for travel within the UK and internationally whilst working on a range of high profile projects.

How to Apply:

If you are capable of meeting a demanding technical challenge in a dynamic and successful consultancy then we would like to hear from you.

Please send your CV to info@pmaaltd.co.uk