

## Principal Structural Design Engineer

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Company: Balfour Beatty

Location: United Kingdom

Category: other-general

### About the role

**Balfour Beatty** have an exciting new opportunity for a **Principal Structural Design Engineer** to join our Design and Engineering Team in our Power T&D Business

You will deliver such design calculations, engineering drawings and documents that enable a safe and constructible engineered solution.

At Balfour Beatty we have a smart working policy with hybrid and part-time opportunities available.

### What you'll be doing

Assume the role of lead structural engineer for complex and non-standard projects

Analyse and understand contract documents to determine scope of works, design parameters/methodologies, engineering programme, and budget.

Ensure projects are delivered to the engineering manager in accordance with the agreed scope of works, design parameters/methodologies, engineering programme and budget.

Approve design deliverables completed and checked by others as per delegation of authority.

Review designs and design calculations produced by other engineers or apprentices to ensure the designs are appropriate and can be manufactured and constructed safely in accordance with contract documents and/ or current best practice.

Produce appropriate designs and design calculations for review by a principal/senior structural design engineer, that can be manufactured and constructed safely in accordance with contract documents and/ or current best practice, and ensure all associated drawings produced represent the design as intended.

Embed Safety and Sustainability by Design in all designs ensuring compliance with CDM regulations.

Assist in the analysis and resolution of complex and non-standard design issues.

Communicate as required with other business functions, consultants, clients, and operational teams to ensure projects are delivered to the agreed scope of works, design parameters/methodologies, engineering programme and budget.

Visit operational sites and other offices to discuss design issues and to develop solutions to operational issues.

Analyse and understand tender documents to produce engineering tenders for review by engineering managers, that, state the scope of work to be undertaken, identify the engineering tasks and associated cost allocations, develop the engineering programme, and identify any significant risk.

Identify, deliver, and undertake training as required to enable effective achievement of objectives.

Mentor and coach others from the structural and the wider engineer team.

Liaise with engineering managers, principal structural design engineers, senior structural design engineers and other engineers or apprentices as required.

Support the Chief Engineer Structures, to drive technical improvement, and identify innovation and development opportunities.

Act as a delegate for the Design Delivery Manager - Structurers as required.

**Who we're looking for**

Bachelors Degree in Civil/Structural or Mechanical Engineering or equivalent.

Excellent structural analysis skills, ability to solve problems from first principles.

Good communication skills, able to communicate effectively at all levels. Knowledge of lattice type structures.

Experience with BS EN 1993-1-1 2005; BS EN 1993-3-1 2006; BS EN 50341-2-9-UK NNA (2017).

Experience with Autodesk Robot Structural Analysis, Bentley Staad Pro and PLS CADD/TOWER, or equivalent.

Working towards CEng.

### **Why work for us**

Day in, day out, our teams deliver some of the UKs most ambitious, exciting and meaningful projects; developing, building and maintaining the vital infrastructure that supports national economies and strengthens communities.

### **Why join us?**

As if contributing to and supporting work that makes life better for millions wasnt rewarding enough, we offer a full range of benefits too. You'll have the freedom to shape the package thats right for you and your life. Here are some of our key benefits:

- Smart working, giving you more flexibility such as staggered start and finish times, with up to 40% remote working, where roles allow.
- 25 days paid annual leave (pro rata)
- Family friendly policies which include 28 weeks full pay for maternity/adoption leave and four weeks full pay for paternity/partners leave
- Pension, share incentive plan, volunteering leave, recognition schemes and much more

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