

Movable Bridge Expertise Bridging Gaps

Atkins Bennett Ltd has a highly respected profile within the engineering world for its involvement in bridges and movable structures. We have a team of highly skilled engineers with considerable knowledge and experience with a view to exchange information on their varied bridge projects.

Nick Cooper, BSc CEng FIMechE FR Eng, (Technical Director) leads the highly qualified bridge team. Nick is primarily known for his detailed design of the operating and rotating mechanism of the complex wheel structure and mechanical interfaces for the Falkirk Wheel, the world's first rotating boatlift. Bennett Associates was awarded the Structural Steel Design Award for its involvement with the Falkirk Wheel.

The Bennett Associates Bridge Team consists of :

- Dr Chris Bird, BSc MEng PhD FIMechE CEng
- Richard Burgess, MA MEng

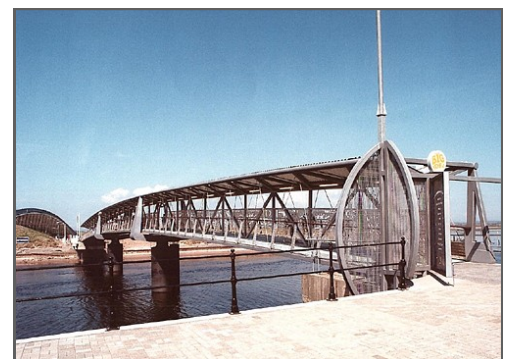
Some of the varied projects that Bennett Associates has worked on include:

- Mechanical design for the **St Ann Way (Gloucester) Bridge**
- Mechanical design for the **Dutch River (Goole) Bridge** (Winner of the 2007 Institution of Civil Engineers (ICE) Yorkshire & Humber Region)
- Mechanical design for the **Poole Harbour Bridge**
- Mechanical, structural and control design for the **Torquay Inner Harbour Bridge**
- Software design for **The Deep Footbridge** in Hull
- Third party check for the **Poulton Road Swing Bridge** at Birkenhead
- Adviser to the Highways Agency for the **A63 Selby Ouse Bridge**
- Detailed fabricated drawings and temporary works for the **York Millennium Footbridge**
- Design of mechanical equipment, hydraulics and software for **The Lowry Centre Footbridge** at Salford Quays
- M & E supervision and dynamic modelling for the **Baltic Millennium Bridge** in Gateshead
- Initial concept, structural, mechanical, hydraulic and electrical design and control software for six **Scottish canal bridges**
- Software for **St Katharine's Dock in London**
- Software review for the **Chatham Bascule Bridge**
- Mechanical design for the **Great Wharf bridge** in London
- Mechanical design for **Bellmouth Passage, North and South Footbridges**, Canary Wharf
- Software design and finite element analysis for **Glasgow Science Centre Bridge**
- Design, software design and commissioning for **Grimshaw Lane Lift Bridge** in Oldham
- Software design for the **Cannon Wharf Bridge** in Norwich

Generally clients know what kind of structure they want but do not possess the necessary in-house mechanical expertise to design or specify the machinery and control systems needed for movable structures. This is where we come to the fore with its experienced team of mechanical engineers. If you are considering a movable bridge or structure then contact Atkins Bennett bridge team as early as possible and include them in the design process to ensure that the structure is both reliable and maintenance friendly.



Gateshead Millennium Bridge



The Bridge of Scottish Invention



Port Tawe Bridge - Swansea



Dutch River Swing Bridge - Goole



Atkins Bennett Ltd

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M G Bennett and Associates Ltd is now part of the **ATKINS** Group