



## **Chris King** **Mechanical and Sustainability Engineer** **Building Technology**

Chris is a mechanical engineer within the Building Technology group at GHD, an international technical services consultancy serving the global markets of Water, Energy, Resources, Environment, Property and Buildings. With over 6000 staff globally, GHD has a wide ranging portfolio of work that includes clean and renewable energy projects, sustainable built environments and low carbon buildings.

### **Key Experience Areas:**

- ▶ Energy Modelling and Analysis
- ▶ ESD Engineering
- ▶ Mechanical system design

Chris specialises in modelling-based engineering design and has been at GHD for nearly 5 years. In the past he has worked on a number of school and community-based projects, in the context of ESD design. In addition, he has conducted energy modelling and shading optimisation studies for schools in Hong Kong

and mainland China. Chris's main interests and experience centre on energy efficiency in buildings. He is passionate about the application of mechanical engineering principles to reduce energy use in buildings and their associated carbon emissions.

### **Key Projects**

- ESD modelling and design of ultra-low energy prefabricated housing in the Pilbara for large mining company
- Australia 'first' energy system design for Yarra Valley Water HQ, Australia
- Hong Kong Academy – Energy modelling and calculation of annual energy usage; subsequent optimisation of building façade to minimise energy usage
- Xing Sha Library, China – Energy Modelling of Xing Sha library and calculation of annual energy and carbon use
- Design of mechanical systems for several institutional and commercial projects