

1 PhD Research Studentship

Novel load-bearing connections for glass structures

One full-time PhD studentship is available at the Glass and Façade Technology Research Group (www.gft.eng.cam.ac.uk/) to investigate novel connections for glass.

Glass is a popular material in buildings, but its desirable transparency and efficiency are often compromised by large inefficient connections that are used at the boundaries of the glass panels in order to transfer loads from the glass panel to the surrounding structure. The aim of this research is to investigate a new generation of high-strength, efficient and visually unobtrusive connections. The connections will involve, but will not be limited to, the use of liquid polymer technology and will build on the recent research on high strength connections at the Glass & Façade Technology Research Group. The research will also benefit from close collaboration with three world-leading industrial partners in the field: Kömmerling (www.koe-chemie.de/en/); Seele (www.sedak.com/en/); and Arup (www.arup.com/).

Applicants must have a 1st or 2/1 degree (or equivalent) in a relevant engineering or science subject. Knowledge of structures, mechanics of materials, and finite element analysis is essential. A creative approach to engineering is desirable.

The studentship is available from October 2017 or January 2018 for three years. Each studentship includes a student stipend of £14,600 p.a. and full university and college fees at UK / EU rates. The studentship is limited to candidates who qualify for Home/ EU fees. For further details see: <http://www.graduate.study.cam.ac.uk/finance/fees/what-my-fee-status>

Please send your detailed CV and motivation letter to Dr Mauro Overend (email: mo318@cam.ac.uk) by no later than 31st July 2017.