PhD researcher within CoACH - Advanced glasses, Composites And Ceramics for High growth Industries European Training Network (ETN).

*Please note that due to the nature of the grant, you must be from outside the UK to apply.*

European Thermodynamics in Kibworth, Leicestershire have a PhD position for a suitable candidate, the research project is with COACH: ‘Advanced glasses, Composites And Ceramics for High growth Industries European Training Network (ETN)’ and will be based at European Thermodynamics.

**PhD research activity:** Development of innovative fabrication techniques to realise new thermoelectric materials in devices.

**Expected Results:** Innovative joining techniques for broad temperature ranges in thermoelectrics, validation of theoretical models, and fabrication of prototype devices.

The aim of this research project is to produce innovative joining techniques, explore methods to ensure thermal stability, and minimise thermal stress. To investigate the degradation and failure mechanisms under accelerated life conditions, and to investigate cost effective manufacturing processes which will assist in creating high integrity robust thermoelectric devices which can lead to commercialisation. This action will link closely with the thermoelectric materials ESR with Nanoforce focused on thermoelectric materials development, with POLITO (Italy), and University of Rennes (France), concerning protective barrier coatings.

CoACH provides career development and training opportunities for researchers who are in their first 4 years of research career in both the public and private sectors.

CoACH is an inter/multi-disciplinary and inter-sectorial programme as it includes 5 academic partners and 10 private companies, from seven different European countries. CoACH will promote international excellence in glass, ceramic and composite science and technology, modelling, design, characterization and commercialization of advanced glass, ceramic and composite based products.

The 15 recruited PhD researchers will benefit from direct access to state-of-the-art research equipment and expertise. They will be trained in creative, independent problem solving under time and resource constraints typical of a scientific and technical working environment in continuous contact with the industrial world.

The CoACH ETN will provide training-through-research in:

- Glasses and composites for health care industries
- Glasses, ceramics and composites for the energy production and ICT industries
- Environmentally-friendly, low cost glass, ceramic and composite materials

**For more details and to apply, follow this link:**
http://ec.europa.eu/euraxess/index.cfm/jobs/jobDetails/33981465

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