

IMPEE PhD Opportunity

Project title: LightFoot PhD – A PhD Investigation Lightning Protection of HV Overhead Lines with Non-Ideal Tower Footing Resistance

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Abstract

LightFoot PhD – A PhD Investigation Lightning Protection of HV Overhead Lines with Non-Ideal Tower Footing Resistance funded by SSE. The LightFoot PhD project takes a fresh approach at adding to the understanding of the effect of lightning strikes on an overhead transmission line in terms of its electrical behaviour such as charge and voltage propagation around towers and lines. It will review and develop models to simulate this behaviour. This is to provide guidance to overhead line design engineers on lightning mitigation options.

Requirement

PhD Studentship available (European/UK students fees plus stipend). Self-funded students are also welcome to apply.

Candidates should have a First Class or 2.1 Honours degree from the physical sciences or engineering.