



Cranfield University

Centre for Propulsion Engineering

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PhD in Optimisation of Aero-Engine Utilisation & Management

Fully Funded: £15,000 tax free plus full fees

Work Closely with a world leading Aviation Organisation

Keywords: Aero-engine, Gas Turbine, Propulsion System, Optimisation, Digitalisation Of Aviation.

An exciting opportunity to work closely with Lufthansa Technik a world leading organisation and actively contribute to the digitalisation revolution of the aviation industry. **This is a fully funded PhD covering fees and living bursary as well as travelling to sponsor and conferences.** You will have the opportunity to visit and spend time in the sponsor's offices in Hamburg Germany and will also present regularly to their specialists and technology managers.

The research will focus on the development of optimisation technics for the utilisation of gas turbines and aero-propulsion systems. This multidisciplinary research project will consider inputs related to gas turbine and propulsion system performance, degradation, damage, materials availability, life analysis, and flight operations to optimise the utilisation, scheduling and maintenance of aero-engines and the whole fleet of engines operated by different users.

You will have the opportunity to contact research within an industrial context and solve real world challenges. The research will contribute directly to the digitalisation of the aviation industry. The research will also develop your project management, team working and communication skills. You will have the opportunity to contribute to the knowledge and technology transfer, to the dissemination of the results and findings and the planning of the research activities.

You will work closely with and manage small teams of MSc students and will gain some management experience. The researcher will have the opportunity to communicate, present and work with experienced researchers, specialists and technology managers within the industrial organisation.

Finally you will develop very strong technical skills related to optimisation, gas turbine and aero-engine performance, operation and integration, data fusion for decision making and will build strong research profile through publications as well industrial skills through the interactions with company specialist.

If you are interested please contact Dr Panos Laskaridis:

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