



UTC Aerospace Systems

UTC Aerospace Systems is among the largest global suppliers of technologically advanced aerospace and industrial products. We design and manufacture aerospace systems for commercial, regional, corporate and military aircraft and are a major supplier for international space programs. Our industrial products serve industries ranging from hydrocarbon, chemical and food processing to construction and mining.

Engine & Control Systems (E&CS) provides complete jet engine controls and accessory packages. From the fuel tank to the ignitors, we have the resources and expertise to design, qualify, and manufacture first in class central systems for our aerospace engine customers.

The UTAS Marston site in Wolverhampton has been providing products for aerospace use for over 90 years; from the inception of aircraft and aero-engine manufacture in Great Britain. Today we supply an integrated range of heat transfer and fluids management products for commercial and military markets, including heat exchangers, metallic and flexible hoses, fuel manifolds and ozone converters.

UTAS Marston is looking for a **Senior Thermal Engineer** to join our team.

Title: Senior Thermal Engineer

Location: HS Marston Aerospace Ltd - Wolverhampton

Position summary:

The Thermal Engineer is responsible for the sizing of Heat Exchangers for UTAS-Marston whilst identifying opportunities to improve existing products. The Engineer supports the Lead Engineers/Program Managers by providing deliverables to schedule whilst maintaining full compliance to given requirements.

Responsibilities:

- *Design heat exchangers by applying principles of heat transfer and fluid mechanics*
- *Use of Star CCM+ CFD to simulate flow and heat transfer*
- *Use Excel VBA or MATLAB to improve workflow*
- *Perform tests working alongside Test Engineers*
- *Provide effective communication of information to customers, suppliers and all disciplines within the business*
- *Compile and present technical documentation to satisfy design reviews*
- *Liaise with other UTC Aerospace businesses to engage niche expertise*
- *Support and monitor outsourced projects*



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- *Mentor junior thermal engineers and industrial placement students*

Requirements:

- **Education** – Degree in Mechanical or Aerospace Engineering or a numerate discipline (Maths/Physics, etc.)
- **Industry Experience** – Aerospace preferred but not essential
- **Computer Literacy** – Microsoft Office Software (Word, Excel, PowerPoint); Training will be provided in use of UTAS Marston proprietary thermal design software. Experience programming in Excel VBA is essential.
- **Other Skills** – Strong analytical skills, good communication (verbal/ written) and willing to work as part of a team. Knowledge of thermodynamics and fluid mechanics an essential.

Anyone wishing to apply for the above vacancy should send a CV and covering letter to the Human Resources Department.

Internal and external candidates will be considered.

The closing date for receipt of applications is **Friday 24th March 2017**

This position may involve access to export controlled information and hardware where an export license would be required for compliance with applicable laws and regulations. Employment will be subject to satisfactory security checks, export license approval, and if required, completion of a non-disclosure agreement