

Woodford Engineering Consultancy (UK) Ltd.

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Registered in England & Wales No: 6733988

WEC provides AS9100C accredited fluid mechanical, safety, electrical and avionics systems expertise to the worldwide aerospace and defence sectors.



On time and to budget

Our personnel have decades of experience working within an OEM systems engineering environment researching, designing and integrating equipment and systems into vehicle platforms. Our background enables us to understand the importance of delivering quality engineering solutions on time and to budget. By reducing programme risk, we are able to maximise the value added for our clients.

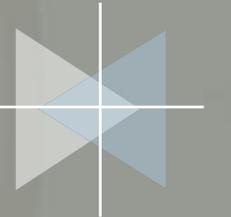


Collaboration

We believe in working with our clients to understand their requirements before embarking on the process of delivering the solution. By working alongside clients WEC can bring its knowledge and experience to bear on defining any work package, meeting with all potential stakeholders to ensure that requirements are correctly understood and execution of the solution is as trouble free as possible.

Our open offices and flat company structure are conducive to collaborative working. All of our engineers have access to decades of experience from the wide breadth of knowledge and expertise across our departments. This stimulating environment brings real benefits, not only to our personnel but also to clients, whose projects benefit from this interdisciplinary input.

Where necessary, we also partner with a small number of highly experienced associates, specialist subcontractors and international companies to provide clients with turnkey solutions.





Our consultancy starts with us listening to our clients.

We then work alongside them to define the problem and derive a suitable approach to a solution.

In some cases clients contact WEC with a requirement without fully understanding their needs. Once the problem is fully understood and the requirements have been validated an appropriate and cost effective work package specification can be created.

Our engineering team can also deliver these work packages. There are enormous benefits in this, as we can already see things from the client's perspective, with an understanding of specific requirements prior to engagement.

Expertise

Our expertise covers a broad range of engineering disciplines, activities and software tools. If you are interested in learning more about specific capabilities or experience, please contact our head office. We would be happy to discuss your requirements and provide more detailed information.

Key disciplines

Fluid/Mechanical

Electrical

Control & Indication

Safety

Research & development

Developing emerging technology applications through the Technology Readiness Level (TRL) framework. Enabling sound business cases for product development.

Requirements management

Capturing, validating and verifying requirements from aircraft level, down to system, sub-system and equipment level.

New aircraft development

Identifying and adhering to the design process applicable to new development programmes.

System safety

Safety analyses and assessments covering the whole product life cycle from initial design concepts through certification to in-service evaluations, modifications and life extension.

System architecture

Defining architectures and conducting trade studies to ensure that system level requirements are met.

System modelling

System modelling at all levels, from simple spreadsheets to complex mathematical models. WEC Engineers will use the tool most appropriate to address the issue in question.

System integration

Integration of systems into vehicle platforms ensuring that both system level and vehicle level performance and certification requirements are met.

Equipment qualification

WEC are able to specify the requirements against which an item of equipment should be procured to meet system level and vehicle level requirements. WEC can work with purchasers to ensure that equipment meets the standards specified and that sufficient evidence is in place to enable acceptance of the equipment.

Certification activities

Working within the processes and methods provided in SAE ARP 4761, SAE ARP 4754A and Def Stan 00-56 we ensure a structured, safe approach to system compliance and vehicle certification.

In-service support

Monitoring in-service reliability and continued airworthiness. Day to day support and trouble shooting. Investigation of in-service events. Developing practical and effective solutions to in-service issues.

Modifications

Working with Minor and Major modifications to existing equipment, systems and platforms, for example, the qualification of a new engine on an existing aircraft platform.

Root cause analysis

Investigation and determination of the root cause of system and equipment failures.

Core activities

Integrity

Integrity is at the heart of all of our operations: we resource jobs responsibly, with appropriately experienced and competent staff.

We demonstrate a stakeholder approach to business ethics; we will not act irresponsibly towards our clients or our employees for the benefit of our shareholders. Valuing our clients and employees makes better business sense to us.

We operate a safety culture, not a blame culture. Our employees are empowered to demonstrate professional integrity at all times. This level of transparency ensures that we can be relied upon to meet client expectations.

Quality

We ensure that every aspect of our business adheres to the standards prescribed by AS/EN 9100C.

By embracing a 'Quality Culture,' we can ensure our output is of the highest standard, but also that our processes remain lean and effective, enabling us to provide maximum value to our clients.

Capability

The depth and breadth of aeronautical expertise our engineers possess allow us to view an aircraft holistically in terms of systems and vehicle interactions and in-service operation.

Ethos

To discover more or to contact us to discuss your requirements see www.wecuk.com