

Product Integrity



John S. – Product Integrity Site Manager in the UK

“Aviation is a highly regulated industry and every aircraft Airbus delivers needs to be to an approved standard. Product Integrity is the interface with the Certifying Airworthiness Authority and the Airbus Engineering Organisation, and is the owner of the processes that enables a design to be approved. Within the framework of an approved design organisation, Airbus also has privileges to approve certain design data on behalf of the authorities and Product Integrity administers these privileges. Airbus is also under an obligation to ensure that our products remain safe once in service and are obliged to review in-service events, taking appropriate action where necessary to maintain Airworthiness of the fleet.

To enable Product Integrity to fulfill its mission we need people who are capable of understanding a broad range of engineering issues and will be able to work with the regulatory bodies in a manner that both satisfies the regulatory requirements and maintains Airbus competitiveness in the market.

This type of role is ideal for a graduate looking to establish a career within Airbus who wishes to look at a broad range of engineering topics, develop their soft skills and gain a good grounding for future progression within the organisation.”

Entry requirements

Suitable degrees include an accredited MEng or equivalent in: Aeronautical Engineering, Aerospace Engineering, Design, Airworthiness Engineering, Mechanical Engineering, Systems Engineering, Safety and Human Factors
Alternatively, we accept applications from candidates with a degree in Maths and/or Physics with a relevant MSc or equivalent.

Additional Requirements

Ideally candidates should have a wider interest in the aerospace industry and profession (including charterships) and demonstrable experience of Aerospace-based projects during Further Education. Demonstration of application of learnt engineering skills gained at university through activities, such as internships, is desirable.

About Product Integrity

Product Integrity leads the functions of the office of Airworthiness that allows Airbus to be a Type Certificate Holder / Type Certificate Applicant for its products. In addition, Product Integrity represents Airbus in the rulemaking process of all major Aviation Authorities and manages the relationships with all aviation authorities and international organisations holding responsibilities in national and international aviation regulations and their implementation.

The Office of Airworthiness is responsible for:

- Obtaining and maintaining the Type Certificates of all Airbus products with the EASA and the Aviation Authorities of customer's countries
- Obtaining the approval of all changes to Type Design to all Airbus products
- Maintaining the continued airworthiness of all Airbus products

- Obtaining and maintaining the Operational Suitability Certificates of all Airbus products with the EASA and the Aviation Authorities of customers' countries
 - Providing Airbus customers with airworthiness services in the form of approved repairs, customisation adaptations, etc
 - Monitoring the safety of Airbus products and undertaking any necessary remedial action
 - Representing Airbus in rulemaking activities, as well as gathering and disseminating regulatory knowledge and expertise within the company
 - Developing Airbus relations with aviation authorities and international organisations that have jurisdiction over Airbus customers, partners or suppliers
 - Exercising approval privileges granted by the EASA
- Product Integrity key tasks and deliverables are:
- The Type Certificates of all Airbus Products and their validations as necessary in customers' countries
 - The Approval of all changes to Type Design and their validation as necessary in customers' countries
 - The resolution of in-service airworthiness issues
 - The operational suitability and ETOPS Certificates of all Airbus products and their validations as necessary in customers' countries
 - The regulatory initiatives / projects managed by Airbus
 - Repair design approval sheets (RAS), technical adaptations (TA), airworthiness limitations sections (ALS) and their variations (for the airworthiness services)
 - The cooperation programs with aviation authorities and international organisations



Case Study - Mike C.
Structures DEG
MEng Systems Engineering, Loughborough University (2006)

"As the first graduate recruited by Product Integrity, I was not sure what to expect at first, so I started on my first day with an open mind and willingness to learn. My first placement was with the Long Range Continued Airworthiness team in Filton.

As Airbus in the UK holds design responsibility for Wing, Landing Gear and Fuel systems, my placement dealt with the analysis and reporting on in-service occurrences relating to these aircraft sub-systems across the in-service long range fleet. This function of continual safety monitoring is a requirement defined by airworthiness authorities, and forms part of the basis on which Airbus is accredited 'Design Organisation Approval' by the European Aviation Safety Agency (EASA), which put simply, is the recognition by an external authority of Airbus' competency to design and certify commercial aircraft.

Continued Airworthiness provides a challenging learning experience, exposing graduates to detailed aircraft structures and systems engineering, human factors, reliability, and the unpredictable nature of real world aircraft operations."