

ACENTISS develops innovative solutions for aerospace, automotive and defense applications. As part of the EASA Part 21J Design Organisation 21J.527 and a wholly owned subsidiary of IABG Innovationen GmbH, we work on demanding civil and defense aviation programs.

For a challenging unmanned aircraft program, we are looking for an experienced

Senior Aircraft & System Safety Engineer (m/f/d)

to take a key role in aircraft- and system-level safety activities.

The work covers the development and maintenance of safety analyses and documentation supporting aircraft development, flight testing and restricted military operations, including substantiation for Permit-to-Fly approvals.

YOUR RESPONSIBILITIES

- Perform and support aircraft- and system-level safety analyses in accordance with SAE ARP4761A / EUROCAE ED-135 and MIL-STD-882E.
- Develop and maintain Aircraft Functional Hazard Assessments (AFHA) and System Functional Hazard Assessments (System FHA), including identification and classification of functional hazards and failure conditions.
- Prepare and perform Preliminary Aircraft Safety Assessments (PASA/ASA) and support Preliminary System Safety Assessments / System Safety Assessments (PSSA/SSA).
- Develop qualitative Fault Tree Analyses (FTA) and qualitative/quantitative Failure Mode and Effects Analyses (FMEA).
- Perform and support Common Cause Analyses (CCA), including Particular Risks Analysis (PRA), Zonal Safety Analysis (ZSA) and Common Mode Analysis (CMA).
- Define and maintain lower-level safety requirements, including Development Assurance Levels (DALs), and ensure end-to-end traceability between functions, failure conditions, safety objectives and derived requirements.
- Define compliance approaches, mitigation strategies and, where applicable, operational safety requirements for flight and maintenance.
- Establish, maintain and update the Safety Program Plan (SPP), including processes, methodologies, interfaces, milestones and responsibilities.
- Coordinate safety activities closely with Systems Engineering and other engineering disciplines and contribute to the integration of the safety and systems-engineering toolchain.
- Support safety activities for safety-relevant aircraft systems such as Mission/Armament Systems, Ground Control Station, Fly-by-Wire, FADEC and Brake-by-Wire.
- Prepare high-quality safety documentation, analyses and reports and support technical reviews with the customer.

YOUR QUALIFICATION

- Degree in Aerospace Engineering, Electrical Engineering, Systems Engineering or a comparable technical discipline.
- Several years of relevant professional experience in aircraft or system safety, ideally in complex or safety-critical aviation programs.
- Hands-on experience with ARP4761 / ARP4761A safety processes and with FHA, PSSA/SSA, FTA, FMEA and CCA methods.

- Sound understanding of aircraft avionics and safety-relevant systems; experience with Fly-by-Wire, flight controls, propulsion/FADEC, Ground Control Stations or mission systems is particularly valuable.
- Experience with military aviation safety, MIL-STD-882E, Permit-to-Fly substantiation or unmanned aircraft systems is a strong advantage.
- Practical experience with safety and systems-engineering tools such as Ansys medini analyze, IBM DOORS and Cameo Systems Modeler.
- Ability to structure complex safety topics, work independently and communicate technical conclusions clearly across engineering disciplines and with customers.
- Strong initiative, teamwork and communication skills.
- Good written and spoken English; good German skills are desirable.
- Flexibility and willingness to travel as required by the project.

WE OFFER

- Direct involvement in a technologically demanding unmanned aircraft development program with high relevance for future aviation and defense applications.
- Substantial technical responsibility and close cooperation with experienced systems, avionics and aircraft-development specialists.
- Challenging and innovative projects of varying size and complexity.
- A motivating team environment with flat hierarchies and short decision-making paths.
- Flexible working hours and the option for mobile working, depending on project requirements.
- Permanent employment, company pension scheme and individual training opportunities.
- Subsidized canteen within walking distance and focused work in small offices.

CONTACT

Interested? We look forward to receiving your comprehensive application, including your salary expectations, at the following email address: recruiting@acentiss.de

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