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AIRBUS

## Cabin Management System (CMS) Software & System Engineer (m/f/d) - Legacy and New Generation

Reference Code 10450185 KP EN EXT 2

- Site:	Airbus Hamburg Airbus Buxtehude
- Target Group:	Professional staff - engineer
- Work Contract Type / Working Time:	Permanent contract / Full time
- Work Experience:	Not specified
- Functional Area:	ENGINEERING / Computing&Communication, Info&Data processing
- Education:	Degree up to 3 Years / Business Information Technology Degree up to 3 Years / Engineering / Aerospace Engineering Degree up to 3 Years / Information Technology Degree up to 3 Years / Engineering / Electrical Engineering Degree up to 3 Years / Software engineering Degree up to 3 Years / Engineering / Telecom, Networks

*Airbus is a global leader in aeronautics, space and related services. In 2018 it generated revenues of € 64 billion and employed a workforce of around 134,000. Airbus offers the most comprehensive range of passenger airliners. Airbus is also a European leader providing tanker, combat, transport and mission aircraft, as well as one of the world's leading space companies. In helicopters, Airbus provides the most efficient civil and military rotorcraft solutions worldwide. Our people work with passion and determination to make the world a more connected, safer and smarter place. Taking pride in our work, we draw on each other's expertise and experience to achieve excellence. Our diversity and teamwork culture propel us to accomplish the extraordinary - on the ground, in the sky and in space.*

### Description of the job

Do you love aeronautics and want to help us design & manufacture the best aircrafts in the world?

You will join the organisation of the Airbus Cabin Management System (CMS), which is the cabin heart of the Airbus commercial Aircraft for all A/C programs. It is the system which allows the Cabin Crew to operate the cabin and it manages and monitors all features providing passengers comfort and safety during the flight, like cabin general illumination, reading lights, louder speakers for passenger announcement, temperature in the cabin, boarding music, doors status, smoke detection, etc... The CMS is a strategic asset of Airbus and it is therefore under strong management focus and attention. The CMS is interfacing with almost all other systems in the aircraft and acts as a Data Inter-communication System. It has grown in complexity along the year due to a continuous demand of the Airlines for more customization and addition of new functions. With the rapid evolution of the technology capabilities in the area of connectivity and digitalization, the expectation of our customers for more flexibility and very short development life-cycle for new features is growing exponentially.

Consequently Airbus will evolve its legacy CMS in order to serve a huge retrofit market with:

- more digitalization, providing service opportunities for the airlines, using Data based on IOT technologies
- more mobility for the crew (HMI on mobile device)
- more availability of the aircraft by introducing Preventive Maintenance

In parallel, Airbus is working on future generation of the CMS, paving the way for future new aircraft and the vision of a full Autonomy in the Cabin thanks to the introduction of Artificial Intelligence, Robotic and full Automation. Model-Based System Engineering and Agile methodology will be the corner-stone of our ways of working.

In this context, we are looking in Airbus (Commercial) in Hamburg and Buxtehude for YOU! We want you working in the CMS perimeter either as System Architect / System Engineer / Software Developer and Tester or Validation & Verification Engineer.

Does it sound interesting for you? Then come and join us!

Even if you are not that experienced, you are invited to promote yourself to these exciting positions!

What do we offer?

- Challenging tasks for/with unique services and products
  - Pleasant working atmosphere in a professional and international work environment
  - Exciting development opportunities and perspectives
  - Extensive company training offers (eLearning and Classroom Trainings)
  - Flexible working hours & places
  - Compatibility of work and family life
  - Attractive remuneration
  - Company Pension Scheme
  - Good connections to public transport and local parking facilities
- Disabled applicants with equal qualification are favoured..

## Tasks

As a System Architect:

- You guide, coordinate and control all activities for functional, physical architecture and integration satisfying future evolution
- You define model-based system architectures in collaboration with cross functional teams in the frame of Cabin Electronic Systems
- You reduce internal product variety by development of platform and module concepts fitting to product lines and cross-program approach and you collect customer needs to define objectives and scope of R&T projects
- You are responsible for the planning, steering and executing R&T and improvement projects to deliver innovative technical solutions in line with programme expectations and strategy

As a System / Software Engineer:

- You are responsible for the definition of the system and software related requirements in the area of CMS
- You assess the impact of new features introduction and concept proposal
- You prepare on functional and system level of the software/system related strategy documents and system specifications by using MBSE tools
- You lead the investigation of in-service issues related to CMS, fix proposals and you drive system/Software improvement together with our suppliers

As a Software Architect:

- You are responsible to interpret the business requirements and determine the right software development approach and technology
- You will be the technical lead for the software development and test teams, finding solutions for coding problems and assuring that the architectural designs are correctly
- You assure the continuous improvement of the software architecture and delivery pipeline, allowing modular development and testing of CMS functions
- You pave the architectural runway, assuring that the development teams can deliver high quality software meeting business requirements and proving customer value

As a Software Developer / Test Engineer:

- You contribute to the development and testing of the Airbus CMS Software
- You will work on the iterative and incremental delivery of functions and related documentation, being part of a multifunctional and agile development Team
- You encompass developing and testing software, contribute to continuous improvement of team collaboration and software delivery pipeline
- You deliver high quality software that is meeting the business requirements and providing customer value

As a Validation & Verification Engineer:

- You work on the verification of functionality and performance of complex systems (applications, software, embedded systems) in the test rig as well as in the aircraft on ground and during flight tests
- You prepare the related system integration test concepts on functional and system level
- You manage problem reports as single point of entry for all reported issues from the Final Assembly Line, Flight Test Centre, Delivery Centre and Customer Support Team
- You drive and monitor maturity improvement of the System by a new and innovative mean of V & V, using e.g. MBSE tests and simulation

This job requires an awareness of any potential compliance risks and a commitment to act with integrity, as the foundation for the Company's success, reputation and sustainable growth.

## Skills

Who are we looking for?

- You hold a degree of 3 years or more in Engineering, Software Engineering, Computer Science, Information Technology, Telecommunication or comparable
- You are an expert of TCP/IP and related communication protocols, CAN-Bus, TSN, AFDX, Ethernet, data network topologies and data security fundamentals AND/OR
- You are used to work in Model Based System Engineering (preferably in SysML) AND/OR
- You present your deep knowledge of network definition especially regarding wireless technologies AND/OR
- You have at least 5 years' experience in (embedded) software development and software integration, using common programming and/or scripting languages (e.g C/C++, JAVA, Python), preferably for real-time Operation AND/OR
- You have experience with software architecture modelling techniques AND/OR
- You have worked in an agile team and experience with tooling and principles for DevOps
- Any knowledge of LEAN/AGILE methods is an advantage
- Language Skills: negotiation level of English; other languages are appreciated

## Contact

Please apply online for this vacancy through our career site ([www.jobs.airbus.com](http://www.jobs.airbus.com)). Please add your CV and relevant certificates. If you would like to add a cover letter, please use the corresponding free text field while applying and also include your earliest possible start date and your salary expectations.

Please note that the attachments uploaded in your candidate profile are visible for all your active applications! Therefore, avoid uploading job-related cover letters in your profile if you are applying for several jobs at the same time.

By submitting your CV or application, you consent Airbus to use and store information about you for monitoring purposes relating to your application or future employment. This information will be used only by Airbus.

Airbus is committed to achieving workforce diversity and creating an inclusive working environment. We welcome all applications irrespective of social and cultural background, age, gender, disability, sexual orientation or religious belief.