University of Stuttgart
Institute of Aircraft Systems

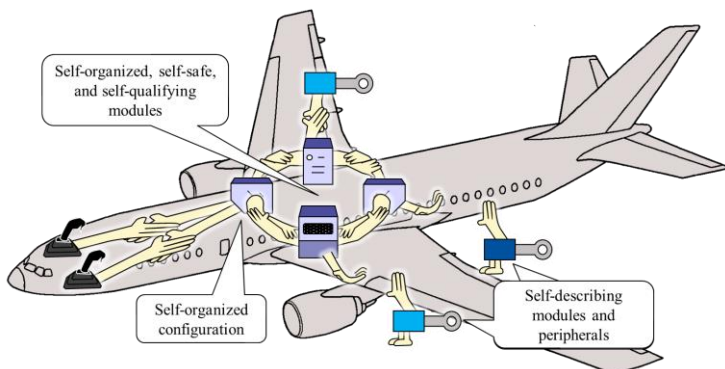# PhD-Position/ Doktorand*in

Plug & Fly Avionics

Current digital avionics systems are statically configured by millions of parameters. This allocates high amounts of time and money within their development process. A significant simplification can be achieved, if computer and peripherals organize themselves, so-called Plug&Fly Avionics. However, issues needs to be solved in deterministic planning algorithms, self-explanation and self-qualification of such systems. Within a newly starting research project methods shall be developed enabling plug&fly technically and within the regulatory boundaries. Certification authorities do participate.

Offered is a full position payed according to the German tariff (TV-L 13). A self-controlled management of project duties, publications, and technical and scientific progress is expected.

Preferred Profile

- PhD-eligable diploma or master in aerospace engineering or computer science
- Background in optimization, planning algorithms and/or AI
- Basic knowledge in aerospace safety and certification regulations

Application

Interested? Send your application including motivation, CV, and certificates to:

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Self-organized, self-safe, and self-qualifying modules

Self-organized configuration

Self-describing modules and peripherals

ILS