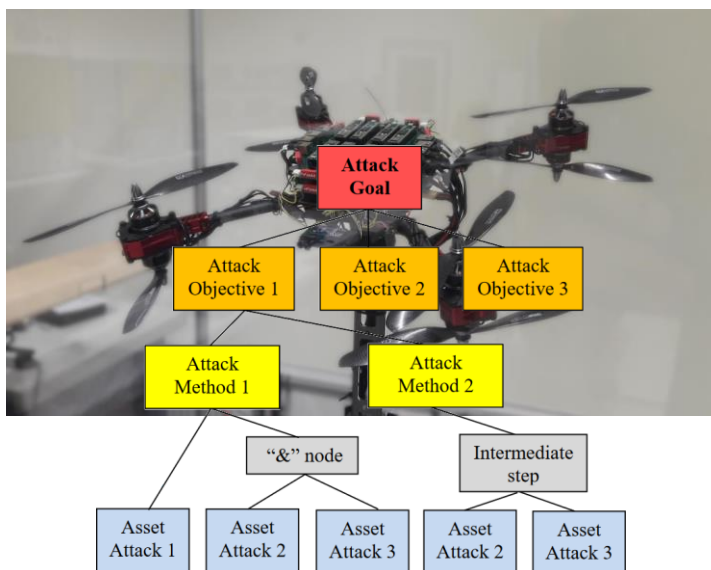# PhD/Doktorand*in /PostDoc
(Wissenschaftlicher Mitarbeiter*in)

PROJECT RESISTANT

Cyber-Security for Self-organizing Avionics

This is your opportunity to join the highly innovative, friendly, and international field of aircraft electronics and software:

Integrated Modular Avionics (IMA) are state of the art in modern air vehicles. The planning, configuration, and integration of IMA systems is, however, one of the most effortful tasks in modern air vehicle engineering. We are working on the concept of an adaptive and self-organizing avionics platform, called Plug&Fly Avionics (PAFA). PAFA can allocate functions, redundancies and communication alone and provide evidences for its safety. Self-organizing computer systems, however, enlarge the surface for cyber-attacks. Current aircraft regulations demand the assurance of cyber-security. As a member of the RESISTANT project you shall work with colleagues, other researchers and industry partners on methods to ensure the cyber-security of PAFA and methods that enable a self-assessment of the security of PAFA components.

Offered is a full position payed according to the German tariff (TV-L 13 / 14 in case of PostDoc). A self-controlled management of project duties, publications, and technical and scientific progress are expected as well as leading a small team.

Preferred Profile
- PhD/PostDoc: eligable diploma or master/PhD in aerospace engineering or computer science
- Background in avionic or cyber-security with a clear link to aviation.
- Basic knowledge in aerospace safety and certification regulations, cryprographie and model-based systems engineering

Startdate: now

Application
Interested? Send your application including motivation, CV, and certificates to the email below. German or English both are fine.

bjoern.annighoefer@ils.uni-stuttgart.de
www.ils.uni-stuttgart.de

Application deadline: Jan 31, 2023