

With immediate effect we are looking for our team, in full-time,

## Researcher in Redundant System Architectures for Unmanned Aircraft (UAS)

### About us

As member of the department of Aerospace Engineering at the Technical University Munich the Institute for Aircraft Design is focusing on aircraft design and aircraft operations. The research is dedicated to the areas of „scenario analysis, future trends and technologies“, „aircraft design for civil and military operations“ and „operational analysis and evaluation“. The combination of these research focus areas provides an ideal platform for interdisciplinary research.

### Requirements

You should hold a MSc. or Dipl. degree in aerospace or mechanical engineering well above average and you should have experience in the design, manufacturing and/or testing of UAV/drone airframes and systems. Fundamental knowledge of the key disciplines in aerospace engineering and especially in aircraft design is required. Expertise in the realization of small scale aircraft and related general and propulsion systems and programming are advantageous. Experience in interdisciplinary work as well as teaching is appreciated as well as interest in cooperation with other groups, communication skills and good writing skills in English to publish scientific papers.

### Tasks

Within multiple research projects with other research organizations and industry key technologies for safe system architectures in high performance UAS shall be developed. The focus of the research activities will be on the design, analysis and test of system architectures integrating actuation, power, propulsion, rescue and flight control systems for UAS up to 125kg MTOW. Flight control systems are **not** in the focus of the research but their overall integration on aircraft level. This will also require the realization of demonstrator systems and iron bird test systems, to verify system concepts in ground (iron bird) and flight tests. The relevant architectures will include full electric as well as hybrid propulsion systems. Besides research activities you will also contribute to the lectures and organizational tasks of the institute.

### We provide

A full-time researcher position with a salary in accordance with the German state regulated public service salary scale (TV-L E13). The opportunity to prepare a PhD thesis (Dr.-Ing.) is given. TUM is an equal opportunity employer. TUM aims to increase the proportion of women and therefore particularly welcomes applications by women. Applicants with severe disabilities will be given priority consideration given comparable qualifications.

### Application

Please file your complete application before 8<sup>th</sup> April 2018 via Email or mail to:

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