

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

Researcher in Unmanned Aircraft (UAS) Design for High Performance and Demonstrator Applications

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 (e.g. manufacturing of composite parts, electronics, remote control components) 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 high performance UAS shall be developed. In special focus are UAS for multiple use cases, among others the use of high performance UAS for technology demonstrations. Your key activities will be in the design, prototype manufacturing, test and integration of novel system technologies and aircraft concepts. This will also require the realization of demonstrator systems and structural components, to verify system concepts in ground (iron bird) and flight tests. The aircraft class will range from a few kg up to >100 kg MTOW, to be addressed in the underlying research. The implementation of full electric and probably hybrid propulsion systems will also be in the core of the research. 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 8th September 2017 via Email or mail to:

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