

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

## Researcher in Unmanned Aircraft (UAS) Operations

### 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 operational analysis and the operation and testing of UAVs/drones. Fundamental knowledge of the key disciplines in aerospace engineering and especially in aircraft design as well as capabilities in operations research are required. Expertise in the operation of commercial or military UAS 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

Understanding operational requirements are key for the optimized matching of UAS airframes with the dedicated mission system or operational payload. Especially for multi-mission UAS the derivation of the underlying system requirements require a modelling and simulation capability of the relevant design missions. Automated feedback loops of mission performance analysis into the UAS design process shall guarantee optimized overall system architectures enabling all required capabilities to perform the design missions. UAS design and mission system integration will also require enhanced tool integration ranging from operational concepts, to simulated mission performance demonstration in relevant environment up to mission performance assessments. 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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