The Helmut-Schmidt-University / University of the Federal Armed Forces in Hamburg (Germany) offers a position as a

**Research Assistant (f/m/d)**
**(Full Time Position, 39 hours/week)**

to be filled by either a PhD student or a post-doctoral researcher. The position is initially limited to 3 years and can be extended depending on performance. The Germany salary grade is 13 TVöD, which means that the yearly salary is around 52.000€ before taxes. The working language is English. The preferred starting date is at the earliest possible date.

The successful candidate will be working in the BWFG interdisciplinary research project “Simulation-based design optimization of dynamic systems under uncertainties“ (principal investigator: Prof. Dr. Kathrin Welker). The project is carried out in collaboration with research partners from the Department of Mechanical Engineering of the Technical University of Hamburg and from the Department of Mathematics from Hamburg University. The main aim of the project is to develop new innovative simulation methods for the robust optimization of complex components. By combining methods from applied mathematics and theoretical mechanical engineering, mathematical models, which involve dynamic operating conditions and uncertain manufacturing processes, will be developed. In particular, a robust design is important for maintenance-intensive and maintenance-free products from the Hamburg aviation and medical technology environment.

**We offer:**

- The advantages of the above-mentioned interdisciplinary research project, such as cooperation with international scientists, the possibility to participate in special programs to promote young scientists, funding to participate in conferences, summer schools, etc.
- Cooperation possibilities with industrial partners in Hamburg like Airbus
- New personalized IT setup: desktop PC / Mac, laptop and tablet, workstation
- Access to university laboratories, including powerful computing clusters

**Requirement for employment:**

- A master-equivalent or Ph.D. degree in mathematics or a closely related field is required
- A strong background in optimization or numerical methods is desired
- Programming skills are expected

**Your application:**

Inquiries and applications (including at least a cover letter, CV, certificates of academic degrees and references for possible recommendation letters) should be directed by e-mail to

Prof. Dr. Kathrin Welker (welker@hsu-hh.de)

by **June 15, 2020.** Late applications will be considered until the position is filled.