GNC Algorithms for Autopilot of Manned Research Aircraft

The Institute of Flight Mechanics and Controls (iFR) at the University of Stuttgart is looking for a research associate (salary according to TV-L E13, full time) for a project funded by the Federal Aviation Research Programme (LuFo) starting as soon as possible.

Within this project, an electric research aircraft is used as an automatically flying tow plane for gliders. The iFR develops an automatic flight control system for the tow plane which will plan flight paths based on sustainability and safety criteria and control the tow train to follow these in flight.

The duties include

- Modelling of the dynamics of coupled aircraft in a tow train,
- Development, simulation and implementation of new flight control methods for collision avoidance, noise reduction, and energy-efficient climbing,
- Conducting flight tests.

Requirements:

- Master's degree or Doctoral degree in engineering, preferably with a background of aerospace guidance, control, and dynamics or a related field,
- Programming skills,
- English language working proficiency (oral and written).

The iFR encourages publication of results in scientific journals and supports participation in international conferences which facilitates the pursuit of an academic career, including a doctoral degree. The position is initially limited to two years but an extension beyond this period is possible.

The iFR is committed to increasing the number of women employed in scientific positions. Severely disabled persons are given priority if equally qualified.

Please address your full application (cover letter, CV, certificates and transcripts) to:



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Research
Associate
(doctoral/postdoctoral)
TV-L E13, full time

