



Master Thesis: Operator state assessment for flight skill training

Description

Airbus Group Innovations are the corporate research centres of Airbus, with sites in Germany, France, Spain, Singapore, Russia and the United States. For our Hamburg office we offer a master thesis embedded in our current research projects on cockpit and flight training.

In the face of increasing automation of flight operations, automation surprise and skill degradation are of particular importance. Flight simulator studies are conducted to test how detrimental effects on performance can be prevented. The thesis should be centered around one or more of the following topics:

- Task analysis of flight operations and procedures
- Pilot (cognitive) modeling
- Development and definition of flight skill metrics
- Conceptual development and/or implementation of interface simulator

Requirements

The successful candidate is likely to meet the following criteria:

- Master student in HMI related field (Human Factors, Psychology, Cognitive Science, Aeronautical Engineering, Computer Science, etc.)
- Interested in aviation, cockpit and flight operations
- Able to maintain orientation and focus in interdisciplinary context
- Knowledgeable and skilled in statistics and experimental design; programming experience is a plus but not required
- Proficient in English; German is a plus

The position is offered in Hamburg for up to 6 months starting from July 2017.

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