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The German Aerospace Center DLR has a dual mandate as the national research center for aeronautics and space, and as the space agency of the German federal government. Approximately 8000 people work for DLR on a uniquely diverse range of topics spanning the fields of aeronautics, space, energy, transport and security research. They collaborate on projects extending from fundamental research to the development of the innovative applications and products of the future. If the idea of joining a top-class team of researchers working in a supportive, inspirational environment appeals to you, then why not launch your mission with us?

The Institute of Communications and Navigation in Oberpfaffenhofen near Munich is offering a

Diploma / Master Thesis

Simulation of Air Traffic Management Communication

Your mission:

DLR is working on a computer simulation platform for optimization and validation of world-wide air traffic management concepts. Digital communication is an essential enabler for future air traffic management. The simulation platform shall therefore interface with a communication module simulating the data exchange between aircraft and ground infrastructure.

The main goal of this master thesis is to create a concept for the integration of a communication model with an existing air traffic simulator, implement the module, and to evaluate the communication performance of the L-band aeronautical communication system with the module.

Your qualifications:

- Programming in C++ and Python
- Computer simulation
- Knowledge of computer networks
- Independent working

Your benefits:

Look forward to a fulfilling job with an employer who appreciates your commitment and supports your personal and professional development. Disabled applicants with equivalent qualifications will be given preferential treatment. If you have any questions concerning specific aspects of the job, please contact Dr. Thomas Gräupl by calling +49 8153 28 4218 or by sending an e-mail to Thomas.Graeupl@dlr.de.



**Deutsches Zentrum
für Luft- und Raumfahrt**

