



**Push** the boundaries of technology

Make it happen with us

## Flight Dynamics Engineer (d/f/m) (JR10130811)

**Location: Manching**

### Your location

Located about an hour's drive north of Munich, Manching is an up-and-coming market town that offers a wide range of leisure and cultural activities. Here, you can enjoy the quality of life in the countryside while the pleasures of near-by cities are still within easy reach.

### Your tasks and responsibilities

Organize and lead all flight dynamic simulation activities required to answer program Eurofighter, Tornado, FCAS, Eurodrone and future projects needs during the full product life cycle.

Your main tasks and responsibilities will include:

- Develop new flight mechanics models, vehicle simulation and tools for handling qualities
- Preparation of existing simulation models, check cases and input data
- Analyze aircraft mission and point performance
- Support of flight test campaigns
- Analysis of flight test data
- Significant interaction with interface disciplines such as aerodynamics, fuel/stores, system design, loads, safety, etc.
- Maintenance and update of existing tools
- Conduct Research and Technology activities and develop methods and tools in line with the engineering strategy to improve the vehicle simulation.
- Performance of linear and non-linear simulations
- Develop optimization algorithms for inverse optimization
- Analysis aerodynamic data
- Analysis of complex simulation results
- Documentation and summary of the simulation results

### Desired skills and qualifications

- Master's Degree in Engineering (Aerospace Engineering/ Aircraft Design)
- Experience in Aerodynamics;
- C / C++;
- Flight control System;
- Flight mechanics;
- Fortran;
- Mass properties;
- Matlab / Simulink;
- Propulsion systems
- You are a teamplayer, have a passion for aerodynamics and have excellent communication skills
- Fluent English, Advanced German

### We offer you

- Challenging tasks for/with unique services and products
- Pleasant working atmosphere in a professional and international work environment
- Exciting upskilling opportunities and perspectives
- Flexible working hours
- Compatibility of work and family life
- Attractive remuneration (incl. holiday pay, Christmas bonus and profit sharing)
- Company Pension Scheme
- 30 days holidays and extra days-off for special occasions
- Special benefits, such as employee stock options, discounted car leasing, special conditions for insurances, public transport subsidy, discounts at local businesses
- On-site-facilities: Medical officer for check-ups and other health-related services, canteen and cafeteria
- At Airbus, we support you to work, connect and collaborate more easily and flexibly. Wherever possible, we foster flexible working arrangements to stimulate innovative thinking.