Department of Aerospace and Geodesy
TUM School of Engineering and Design
Technical University of Munich

IDP (Interdisciplinary Project in an Application Subject)
Chair of Aerospace Structure Design - Prof. Dr.-Ing. Fernaß Daoud

Software Development for Research and Teaching

At the Chair of Aerospace Structure Design, various programming interfaces are used to streamline toolchains for structural analysis, FE-simulations, as well as coordinative tasks in research and teaching.
We are looking for one or two creative and motivated students with solid programming experience to support our software development as part of an IDP.

Key responsibilities:

- Familiarisation with software requirements and existing code architecture
- Conceptualisation and implementation of new procedures and features
- Development of GUIs and web-based interfaces
- Research and selection of suitable open-source solutions
- Independent coordination of programming tasks
- Close communication with the chair and project participants
- Maintenance of the respective repositories
- Careful documentation of code functionality
- Presentation of the final approach and results

Requirements:

- Solid experience in object-oriented programming, primarily Python
- Experience with the version control system Git
- Willingness to work and communicate in a team
- High motivation to deepen your knowledge of relevant topics

Start:	fall 2026
Duration	approx. 6 months, with possibility of a subsequent HiWi position
Scope of work:	(IDP) Interdisciplinary Project in an Application Subject
	[IN2334] M.Sc. Informatics, or similar
Working hours:	flexible, with regular meetings
Location:	Campus Taufkirchen/Ottobrunn and remote

In case of questions, don't hesitate to contact the chair.
Applications may be sent to niklas.moser@tum.de as long as the position is announced on the chair's webpage (https://www.asg.ed.tum.de/slr/startseite/).