



## Job for students!

### Topology optimization and 3D Printing: assistance in project-related work

The project's focus is the development of a new multi-axis additive manufacturing technology with continuous fibers. Our contribution is the design of optimized components with applications in the aircraft industry. One current challenge is the translation of these designs into actual fibers and printing sequences for the manufacturer.

For this purpose, we are looking for assistance to acquire existing approaches from literature for solving this problem.

Your tasks:

- Conduct literature research
- Prototypical implementations of acquired approaches
- Numerical studies

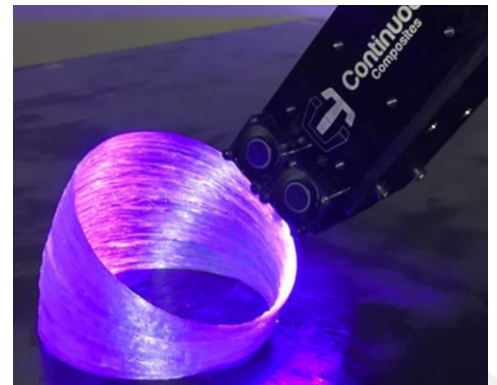
We offer:

- Flexible working place / supervision / hours (max. 19 hours per week)
- Standard payment rate (studentische Hilfskraft)
- Cooperation with industry partners in a cutting-edge manufacturing topic
- Insights to the field of topology optimization
- Technical equipment can be provided

We expect:

- Basic computer skills
- Programming experience in Python, MATLAB, etc.
- Structured and independent working practice
- Good communication skills in English

If you are interested, do not hesitate to send your application and CV to Dr. Fabian Wein ([fabian.wein@fau.de](mailto:fabian.wein@fau.de))!



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