

## Job offer/Vacancy

The Chair of Engineering Design at the Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) is one of the leading university institutes in the field of engineering design and product development in Germany. About 40 scientists teach and research in the fields of design methodology, virtual product development, machine elements and lightweight design.

**In order to strengthen our team at the earliest possible time, we are looking for a**

### Research Assistant (m/f/div.) in the field of lightweight design – TopoRestruct –

#### Scope:

Topology optimisation (TO) methods generate ideal structures for given objective functions, loads and boundary conditions. A typical result of a FE-based topology optimisation is a triangulated surface mesh, which in most cases is largely irregular and does not provide a parametrised CAD geometry. Therefore, further integration into the product development process is challenging. Automated, feature-based creation of parametric CAD geometry thus is the aim of “TopoRestruct”. We are looking for an engineer who is committed to promoting the above-mentioned topic and who is actively involved in the specialist group. The opportunity for a doctorate is available.

#### Qualification:

**Required:** Above-average successful diploma/master's degree in an engineering degree program (mechanical engineering or related subject area). Interest in research. Ability to work independently but also in a team. Organisational skills. Advanced programming and CAD skills. Profound knowledge of design for manufacturing.

**Desirable:** In-depth knowledge of FEA, optimisation and/or lightweight design.

#### Job description:

Intended pay scale: TV-L E13 (Tarifvertrag für den Öffentlichen Dienst der Länder/Germany). The offered position is full-time, fixed term and not suitable for part-time work.

#### For more information:

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#### Please send your application documents to:

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