

Computational Engineer (m/f/d)



CREE GmbH

If you have a background in Building Design and Computational Engineering (with at least basic software development skills) and want to support the development of automated building-design processes, please send us your resume and motivation letter. You will be working in a team of technicians to create, maintain, and extend the generative- and parameterized designs processes. The focus will be on parameterizing our timber-hybrid building-system and build the algorithms to generate many building-designs for a given building. These designs will be stored in a common-data-environment (CDE) and your team will generate various analysis, filters, and reports based on the generated designs. In your senior role you have already worked with the related technologies and scripting/programming languages in recent projects and can apply your experience here and guide and mentor the juniors.

Your tasks

- Obtain a general understanding of the CREE timber-hybrid system
- Development of an automated design approach for the CREE timber-hybrid system
- Creation of modules to ease the workflow of systemized planning with e.g.,
 - ◊ floor elements,
 - ◊ exterior / interior wall elements,
 - ◊ and the building's facade/window design.
- Generate KPIs from the generated designs to support the decision making processes

- ◊ For example: building shape X generates X amount of CO2, building height X generates X construction time, etc.

Your profile

- BSc/MSc in construction engineering or building architecture (or equivalent experience) or
- BSc/MSc in computational engineering or generative design (or equivalent experience)
- Proficiencies in Rhino, Grasshopper (plus) or equivalent (e.g.. Revit + Dynamo, AutoCAD, ArchiCAD, ...)
- Basic knowledge in Software-Development and scripting tools
- Fluent in English (spoken and written, mandatory)
- German optional
- Located in or close to Central Europe preferred

What we offer

- Flexible working hours and location (WFH can be negotiated)
- Working with innovative and spearhead technologies of the construction industry
- Participating in a motivated, international team
- Support in personal and professional development through an employee education schedule
- Self-managed & organized scope of duties

We're looking forward to receiving your application

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