

Modular Systems Architect / Computational Design – ADPT (80–100%)

Looking For A System Problem Worth Solving?

We don't develop buildings. We build a system that generates them.

With **ADPT**, we are developing a circular planning and construction system that connects architecture, systems design and software. We see buildings not as resource-intensive one-off projects, but as configurable expressions of a shared system that enables the efficient and economically viable delivery of circular buildings.

We are now building the core team that will define the architecture of ADPT – and help shape how buildings will be planned, configured and delivered.

Your Mission

As Modular Systems Architect, you own the interface between the physical building system, digital models and system logic. You shape the digital structures from which valid, high-quality and resource-efficient building configurations can be derived. Your contribution:

- You translate building components into structured, machine-readable models
- You model relationships, dependencies and valid combinations between components
- You translate system rules into consistent model and data structures
- You create the foundation for valid, systematically assessable building configurations

You work directly at the intersection of:

Architecture & System Design

together with the Principal Systems Architect and the Architecture Design Lead

Research & Software Development

in close collaboration with a leading research group in digital construction ([Chair of Computing in Civil Engineering](#), Prof. Dr. Markus König, Ruhr University Bochum)

Engineering Practice

in close collaboration with [Arup](#), as part of a development partnership focused on future-ready and circular buildings



What You Bring

- Good understanding of modular building systems and their underlying construction logic
- Deep understanding of discrete building components, type systems and parametric models
- Solid experience in the structured modelling of building or design systems
- Ability to translate physical and construction systems into precise digital models that connect effectively with software and system logic
- Very good command of English; German is an advantage for working within the German planning and project context

Your background may be in architecture, computational design, design technology, engineering or adjacent technology-driven fields. What matters is your understanding of physical building systems and your ability to represent their logic precisely in digital models.

What Makes This Role Unique

- You don't work on individual buildings, but on the logic from which they emerge
- Your work shapes how the system represents and combines physical components – and changes how buildings are planned, built and optimised
- You join at an early stage and help shape how the ADPT building system is structured, modelled and developed
- You work with leading partners from engineering practice and research in the digitalisation of construction, including Arup, Ruhr University Bochum, TU Dortmund, Bochum University of Applied Sciences and Technical University of Munich
- ADPT buildings are not only designed and simulated – they are actually built
- Your work contributes to the transformation of the construction sector – with tangible impact in real pilot projects funded at EU, federal and state level (e.g. ["ZukunftsQuartier Kunstwerkerschule"](#))

Framework

Duration: minimum 16 months; long-term perspective for an excellent fit

Location: Essen or Berlin; a high degree of remote work is possible during the current build-up phase

Collaboration: high level of autonomy and close teamwork, with targeted in-person collaboration during key development and workshop phases

Compensation: salary, option for equity participation

Start: by agreement

If This Role Resonates With You, Send Us:

- a short profile or your CV
- 2–3 projects or examples you have worked on (link + brief context)
- a few lines on why building ADPT interests you and which tasks you find most compelling with regard to building systems, digital models and system logic

The Process:

- A short intro conversation
- 1–2 in-depth conversations on systems, architecture and implementation
- A conversation about the framework and working conditions

Interested? Reach Out:

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Know Someone Who Should Help Shape ADPT?

Please share.

