

Modular Systems Architect / Computational Design – ADPT (m/w/d, 80–100 %)

Looking for a system problem?

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

With **ADPT**, we develop a modular system that connects architecture, systems design and software. Buildings are not treated as isolated projects, but as configurable expressions of a shared system. This is how we make construction more scalable, circular and economically viable.

Your Mission

As a Modular Systems Architect, you are responsible for the constructive-digital interface of ADPT — where physical building components, digital models and system logic come together. You ensure that resource-efficient living and working environments emerge from digital models. Your contribution:

- You translate building components into structured, machine-readable models
- You model relationships, dependencies and combinability of components
- You translate system rules into consistent model and data structures
- You establish the foundation for valid and evaluable 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 circular, high-quality buildings



What You Bring

- Deep understanding of modular, industrialized and system-based construction
- Ability to translate physical systems into abstract and logical structures
- Experience with discrete components, type systems and parametric models
- Experience in the structured modelling of building or design systems
- Ability to formulate concepts precisely and in a way that connects architecture and systems thinking
- Strong interest in shaping future-proof ways of designing and building
- This role is designed for system thinkers rather than traditional design architects or BIM modelers

What Makes This Role Unique

- You do not work on individual buildings, but on the logic from which they emerge
- Your work defines what becomes possible within the system — and changes how buildings are planned, built, used and optimized
- You join at an early stage and help shape how the ADPT building system is structured, modelled and evolved from the beginning
- You collaborate with leading partners from engineering practice and research (including Arup, RUB, TU Munich, TU Dortmund, HS Bochum)
- ADPT buildings are not only designed and simulated, but actually built
- Your work contributes directly to transforming the construction industry — with immediate real-world impact through funded pilot projects funded at EU, federal and regional level (e.g. the ADPT pilot project ["ZukunftsQuartier Kunstwerkerschule"](#))

Framework

Duration: minimum 16 months, with long-term perspective for the right fit

Location: Essen or Berlin and remote

Remote setup: flexible depending on project phase and requirements

Compensation: salary, equity option

Start date: by agreement

If this role resonates, send us

- a short profile or CV



- 2–3 projects or examples you've worked on (links + brief context)
- A short note on why you're interested in building ADPT and which system or architectural questions interest you most

What to expect:

- A short intro conversation
- 1–2 deeper technical discussions
- A conversation about terms and conditions

Interested? Reach Out.

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Know someone who should work on ADPT?

Please share.

