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Open Position for **PhD student**
with Research Task of
Knowledge Representation in Architecture, Engineering and Construction

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Analytic Computing is a new team and the nucleus for a new Institute for Artificial Intelligence at Universität Stuttgart, Germany. The new institute is endowed by the Cyber Valley Initiative that funds and joins AI research at Universities of Stuttgart, Tübingen and the Max-Planck-Institute for Intelligent Systems. Our research interests include foundations of knowledge graphs, machine learning, natural language processing, intelligent interactive systems, as well as reflection on Web, AI and society.

We invite applications as researcher for a full-time position

PhD student (100% TV-L E13)

Your research will involve the research of knowledge representation and reasoning techniques for knowledge-driven engineering in architecture, engineering and construction. Knowledge-driven engineering is a novel concept that synthesizes ideas from formal methods and software engineering for application in knowledge-guided engineering. The duration of the position is limited to 3 years.

What We Will Offer
We provide you with a friendly, but challenging interdisciplinary research environment and support your academic career towards accomplishing your Ph.D. You will join a dedicated team of 2 researchers in the field of knowledge representation and reasoning. The targeted work will happen in collaboration with a researcher who is an architect.

What You Will Contribute
You will work on core ontologies for architecture, engineering and construction, on formal logic operators that aggregate and translate between different stages of the engineering process and corresponding formal reasoning methods. You will advise and tutor bachelor and master students in the computer and data science programs of the department in topics related to your research.

Eligibility
Applicants for the position are required to have a MSc in computer science or related field. You should possess knowledge in logics and/or ontologies and/or formal artificial intelligence. Good social and communication skills are required.

Salary
The salary amounts to German TV-L E13, which starts at approx. 50,000 Euro income per year (before taxation). The position is open as of July 1, 2021.

More Information
Visit our website at https://www.ipvs.uni-stuttgart.de/departments/ac/ and the website about Cyber Valley at https://cyber-valley.de/en. Personal inquires can be directed to Prof. Staab or Dr. Potyka.

Application
Please submit your application in one PDF file including motivation letter, CV, transcripts and list of references until April 15, 2021, by email with subject "Application Knowledge Representation" to: ac_info@ipvs.uni-stuttgart.de