In your role as a Student Worker you will evaluate the performance and scalability of cutting-edge storage solutions for model-driven systems design.

**MOTIVATION**
The CACTOS project is a European project developing an integrated solution for runtime management and optimisation of Infrastructure-as-a-Service (IaaS) cloud data centers. Model-driven techniques are used to enable run-time reasoning on large distributed software systems. Large runtime models need to be constantly updated in order to allow for meaningful optimization of the IaaS data center. CACTOS uses the CDO storage solution to manage these runtime models.

**TASKS**
You will work on
- The extension and creation of model transformations to generate large-scale models
- Deploying a CDO database repository and a DBMS storage backend
- Creation of representative load tests that interact with the CDO model repository
- Execution of scalability analyses for different usage scenarios (variation of model size and complexity of interactions)

**WE EXPECT**
- Good knowledge of Java, fundamentals in Software Performance Engineering and Model-Driven Development
- Self-reliant thinking and working
- Fluent in German or English
- Motivation and commitment

**WE OFFER**
- A working environment and organization close to business
- A pleasant working atmosphere
- Constructive teamwork

**FURTHER INFORMATIONS**
- Start: as soon as possible
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