**PSC - Parallel Simulation of Cyber-Physical Systems**

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**Job description:** Cyber-physical systems are systems where a network of computers monitor and control essential infrastructures of our modern societies, like "smart" cars on smart roads, smart buildings, smart power grids and smart cities. To design such systems correctly before deploying them, significant modeling and simulation is necessary. Before of the scale and complexity of the system, these models are large and heterogeneous (i.e., involving multiple modeling languages and tools). The goal of this project is to develop tools for efficient simulation of such models, in particular using parallel simulation techniques and multicore computers.