



## RISE CoE YEAR-ROUND PAID INTERNSHIP PROGRAM

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### **Internship Topic: Agent design toolbox**

#### **Short Description:**

The aim of this project is to create an interactive toolbox in visual form that makes it easy for researchers to design agent architectures for reinforcement learning settings. The toolbox will initially contain primitives such as the current environmental observation, the action produced by the agent, the next environmental observation and extrinsic reward. These primitives will be used to create visual components that implement Python code of the agent (e.g., Q-learning). An important feature of the toolbox will be the ability for high customization, as well as the ability to extract the agent code (in Tensorflow or PyTorch) that can be used with an OpenAI gym. The toolbox is envisioned to be able to aid researchers in creating a variety of architectures (such as actor-critic, model-based, episodic, hierarchical, deep Q networks etc.) and easily visualize them.

**Type:** Work placement

#### **Responsible MRG:**

Successful candidates will be based at LEAR MRG (Learning Agents and Robots)

#### **For more information please contact:**

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