



# Akila

## Digital Twin - System Integration & Energy Efficiency Internship

Location: Shanghai / Languages: Mandarin (fluent); English (fluent)

### Duties:

- Evaluate and present findings on building-related metadata schemas and ontologies such as Brick, Haystack, Building Topology Ontology, Realestatecore and others
- Work with system integrators to implement tagging standards on edge devices, both ICT devices and data collection servers.
- Leverage ontologies to build RDF models of buildings for integration into a digital twin platform.
- Help to design and implement ICT-based energy efficiency measures for new and existing buildings, integrated with an ontology-based digital twin.

### Key skills and competencies:

- Background in Energy Management and IOT (Course IE26044)
- Background in Big Data and Security (Course IE26031)
- Familiarity with Semantic Web Standards
- Understanding of knowledge graphs and graph databases

### Who we are :

Akila is a Shanghai-based startup in the digital twin industry, focused on accelerating a revolution in the way data is harnessed to optimize sustainability and efficiency in buildings and cities. We take the goal of net-zero carbon deadly serious; to achieve the mission, we have begun building a team of experts (50 people and still growing) from business, data, energy, engineering, building operations, construction and more. The Akila digital twin platform is kicking off its public launch this year and is already in active use at 9 client sites covering 1M+ square meters, including major international names from retail, pharmaceuticals, chemicals, education and healthcare.

### Where we come from :

Akila was incubated by Aden Group, an international group headquartered in Shanghai specializing in facility management, environmental services, private equity and more. The Akila team currently operates in Aden's Global HQ.