



University of Essex

# Essex Futures BT– Masters Scholarship 2026-27

## **Project information: Optimising Energy Consumption in Distributed AI Training Through Intelligent Network Strategies**

This research focuses on designing a network strategy framework for optimising energy consumption in large-scale AI model training. Beyond simply reducing energy usage in AI model training, the project also explores how network strategies—such as data placement, model distribution, and communication scheduling—can be deployed more efficiently by intelligent network strategies. If BT operates its own data centres and is actively engaged in cloud services, this research would provide guidelines with them to improve sustainability, reduce operational costs, and enhance the efficiency of AI-driven network fit to AI model training.