CPSLab @ Mines is offering four research positions funded by the NSF Research Experiences for Undergraduates (REU) program.

Available positions:

Summer 2024: Two positions requiring 20 hours per week for a 15-week period, with each student receiving a $4,800 stipend.

Fall 2024: Two positions requiring 10 hours per week for a 20-week period, with each student receiving a $3,200 stipend.

Requirements:

US citizens or permanent residents.
Overall GPA (3.00 or higher).
CS or EE major.

Project 1 (ML Stealing): This project is dedicated to adversarial attacks within multi-agent reinforcement learning systems. We are looking for students interested in conducting model extraction attacks on RL models and benchmarking these attacks. Successful outcomes may lead to co-authored publications.

Project 2 (Tiny Machine Learning Systems): This project focuses on deploying pre-trained computer vision or deep learning models onto tiny cameras equipped with minimal Linux firmware. Participants will engage in practical edge computing and Internet of Things (IoT) applications, with opportunities for co-authored publications based on their research findings.

Application Process: Interested candidates should email their resume and a brief statement of interest to Dr. Dong Chen at dongchen@mines.edu