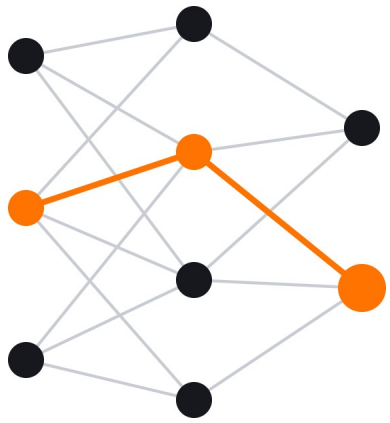
U.S. DEPARTMENT OF ENERGY · GENESIS MISSION

OKLAHOMA STATE UNIVERSITY

Build AI for the Power Grid



Hiring GRAs: AI, Coding & Programming

U.S. CITIZENS ONLY

Join **GRID-OPS-AI**, a DOE Genesis Mission project led by Oklahoma State University. We build trustworthy AI that helps utility operators make faster, safer decisions, trained on real utility data and tested inside a working utility control platform.

What you'll work on

- LLM-based assistants that explain grid decisions to operators in plain language
- Physics-informed neural networks (PINNs) for forecasting and uncertainty
- Safe reinforcement learning for real-time grid control
- Data pipelines for high-volume SCADA and PMU streams
- Scaling models on national-lab HPC resources

What you bring

- Strong Python programming; PyTorch or TensorFlow
- Experience with deep learning, LLMs/RAG or reinforcement learning
- Solid software habits: Git, Linux, APIs, clean and tested code
- Comfort working with large time-series datasets
- Power systems background is a plus, not required

★ U.S. CITIZENSHIP REQUIRED

MS or PhD students (admitted or enrolled) in ECE, CS, Business Analytics and Data Science, or a related field. Paid position · Starts immediately · 8–9 month project

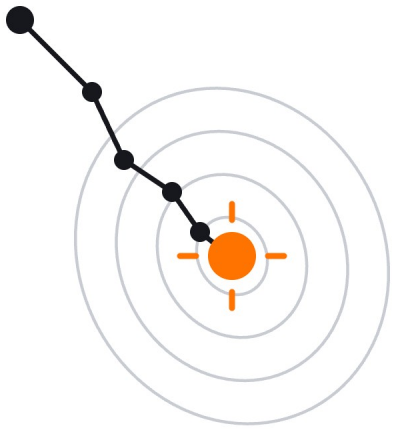
How to apply

Email your CV, transcripts and a short statement of interest to Dr. Hamid Pouya at hanazar@okstate.edu. State your citizenship in the subject: **"GRID-OPS-AI GRA – AI – U.S. Citizen"**. Open until filled.

U.S. DEPARTMENT OF ENERGY · GENESIS MISSION

OKLAHOMA STATE UNIVERSITY

Optimize Tomorrow's Power Grid



Hiring GRAs: Optimization & Power Systems

U.S. CITIZENS ONLY

Join **GRID-OPS-AI**, a DOE Genesis Mission project led by Oklahoma State University. We develop risk-aware optimization that helps utilities dispatch, reconfigure and protect the grid under uncertainty, validated on real distribution feeders with our utility partners.

What you'll work on

- Distributionally robust optimization (Sinkhorn DRO) for grid operations
- Convex reformulations (e.g., exponential-cone) that solve fast at scale
- Uncertainty-aware dispatch and corrective control on real feeders
- Benchmarking against stochastic and robust optimization methods
- Demonstrations in a live utility operations platform

What you bring

- Coursework or research in convex, stochastic or robust optimization
- Modeling in Python (Pyomo, CVXPY), Julia/JuMP or MATLAB
- Experience with solvers such as Gurobi or MOSEK
- Basic power and energy systems: power flow, OPF, distribution feeders
- Machine learning exposure is a plus

★ U.S. CITIZENSHIP REQUIRED

MS or PhD students (admitted or enrolled) in ECE, Industrial Engineering, OR, Applied Math or a related field. Paid position · Starts immediately · 8–9 month project

How to apply

Email your CV, transcripts and a short statement of interest to Dr. Hamid Pouya at hanazar@okstate.edu. State your citizenship in the subject: **"GRID-OPS-AI GRA – Optimization – U.S. Citizen"**. Open until filled.