



BERKELEY LAB

Bringing Science Solutions to the World



U.S. DEPARTMENT OF
ENERGY

Office of Science

Internship at Berkeley Lab

Alex Moreira



Berkeley Lab's Grid Integration Group

- Berkeley Lab's Grid Integration Group develops models and software solutions to support decisions around power systems planning, economics as well as electricity markets and policy.
- Examples of successful models developed by the Grid Planning and Economics team include:
 - The [Security-constrained AC OPF](#) algorithm, which received a top performer prize in Challenge 2 of the ARPA-e Grid Optimization Competition.
 - The [resilient distribution expansion](#) model, developed in partnership with the industry, which was recently made available as a [prototype tool](#).
 - Different models for microgrid planning, covering different design aspects, such as [distribution grid](#) or [multi-energy](#) representations, included LBNL's [DER-CAM tool](#).
- More information here: <https://gridintegration.lbl.gov/advanced-grid-modeling>

Internship at Berkeley Lab's Grid Integration Group

- We welcome interns that are interested in formulating and solving power systems optimization and simulation problems that have relevant practical value for real life applications
- The intern will be a Berkeley Lab Affiliate student during the internship period
- Additional stipend might be provided by Berkeley Lab's Grid Integration Group to support the intern's living expenses in the Bay Area during the internship

Thank You!

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