

The MIT PVLab is seeking a postdoctoral researcher for its Silicon Team. The successful candidate will enhance the MIT group's expertise in defect characterization & simulation, kerfless wafering, and high-efficiency silicon approaches. The successful candidate should have qualifications in one or several of the following:

Technical:

- Experience characterizing and/or simulating defects in crystalline silicon solar cell materials, devices, and modules (may include microanalytical characterization tools, including synchrotron-based characterization, Sentaurus Device simulations, and kinetic process simulations);
- Experience processing materials and/or fabricating solar cell devices (may include gettering and passivation);
- Experience with downstream processes, including module fabrication, characterization, simulation, and reliability testing;
- Demonstrated experience of successful projects with industrial partners;
- Demonstrated collaboration with experimentalists and simulation experts.

Professional:

- Successfully completes research projects;
- Demonstrates a strong (age-appropriate) publication record;
- Works well independently and as part of a team;
- Cultivates strong personal connections within the crystalline silicon PV community.