

The ARC-UP team has identified the following areas of technical needs for this project. We have divided the needs by the “Ready, Set, Go” Stages.

Ready Stage

1. Assistance with annotated literature review of low-impact solar innovations and research as well as state-based policy drivers and emerging trends including agrivoltaics.
Technical needs: access to research library and appropriate databases.
2. Rapid prototype coding of the ARC-UP Toolkit plugin
 - At a minimum, evaluate inclusion of the following low-impact design elements
 - *Pollinator-friendly seed mixes applied under panels >30” off the ground at the lower edge*
 - *Bee yard and straight truck access*
 - *Water source for grazing sheep*
 - *Technical needs: scoping v.1beta feature set, coding, design, testing, debugging*
3. QA/QC
 - Utilize engineers employed by NREL’s InSPIRE project partners to review plugin and provide feedback. *Technical Needs: QA/QC*

Set Stage

1. Scale prototype to ensure commercial-quality and reliability in real world conditions.
2. Continued plugin development *Technical needs: scoping, coding, design, testing, debugging*
 - a. Scope, design and incorporate following functionality into the plugin:
 - i. receive third-party bids on execution of various low-impact design features
 - b. Testing and debugging based on NREL InSPIRE engineer feedback
 - c. *Technical Needs: development of training tutorials for engineers.*
3. QA/QC
 - a. Utilize InSPIRE project engineers to review plugin and provide feedback.
Technical Needs: QA/QC

Go Stage

1. Evaluate plugin for multiple platforms (e.g. HelioScope and others) and/or languages
2. QA/QC