



**Internship title:** GIS Intern - Spring 2022

**Organization:** ASU SolarSPELL Initiative ([www.solarspell.org](http://www.solarspell.org))

**Location:** Tempe; remote and Payne Hall - East

**Type of internship:** Non-paid; 8-10 hours per week

**Application deadline:** November 14th; applications will continue to be accepted and reviewed every week until the position is filled.

**Start date:** January 6th

**Description:**

SolarSPELL is seeking an intern to assist with the GIS work associated with the SolarSENSE project as part of the ASU SolarSPELL Initiative. The project will use satellite imagery to aid in the ground placement of SolarSENSE soil sensors. The approach is to use the imaging satellite directed and pointed to collect multispectral imagery over a selected coverage area. This data is loaded into a Geographic Information System to analyze and visualize agricultural environments and allows precision location identification for placement of the SolarSENSE system into smallholder farms that show crop or soil issues.

SolarSPELL is an educational initiative at Arizona State University that combines appropriate technology, relevant content, and local capacity building. We work to build internet-ready skills and improve educational opportunities around the world. Our offline digital library is designed to bring educational content to resource-constrained locations that may lack electricity, Internet connectivity, and/or traditional libraries. The SolarSPELL library emits an offline WiFi hotspot, to which any WiFi capable device (smartphones, tablets, laptops) can connect and browse the expansive content for free.

Users connect to the SolarSPELL offline, digital educational library over WiFi, using any WiFi-enabled device (smartphones, tablets, laptops) to freely, and safely, surf thousands of resources that are carefully curated and continually improved to meet local information needs.

More information on SolarSPELL can be found here: <http://solarspell.org>

This internship offers an exciting opportunity to contribute to improving the quality of educational information available to farmers, farm extension works, and US Peace Corps agricultural volunteers around the world, whose farms are in areas that lack Internet connectivity, electricity, and/or traditional libraries. Your contributions will be brought to the field in very remote locations.

Interns will be expected to attend a new intern orientation upon the start of the internship. Ideal candidates will be detail-oriented and self-starters.

**Essential Duties:**

- Determine the optimal GIS software for this project
- Assisting the data analysis
- Data processing procedures
- Recommend different cartographic approaches for the field

**Minimal Qualifications:**

- Use experience with different types of GIS software (arcinfo, GRASS, QGIS, etc)
- Able to commit to a minimum of 8 hours per week.
- GIS is part of your major

**How to apply:** If you are interested in applying for this position, please submit a resume and cover letter to Courtney Finkbeiner at [courtney.finkbeiner@asu.edu](mailto:courtney.finkbeiner@asu.edu). All documents should be in PDF format and follow the naming style of [LastName\_FirstName\_DesiredPosition]