Internship title: GIS Intern - Fall 2021

Organization: ASU SolarSPELL Initiative (www.solarspell.org)

Location: Tempe; remote and Payne Hall - East

Type of internship: Non-paid

Application deadline: rolling until filled

Start date: August 18th

Description:

SolarSPELL is seeking an intern to assist with the GIS work associated with the SolarSENSE project as part of the ASU SolarSPELL Initiative.

SolarSPELL is an offline, digital library initiative at Arizona State University that provides localized educational information and the training to build 21st-century skills in offline environments that may lack electricity, internet connectivity, and/or traditional libraries. We work with in-field partners, like the Peace Corps and the UN Refugee Agency, to build local capacities and ensure long-term, sustainable impact.

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. 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.

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:
- ASU graduate GIS student
- Use experience with different types of GIS software (arcinfo, GRASS, QGIS, etc)
- Able to commit to a minimum of 8 hours per week.

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. All documents should be in PDF format and follow the naming style of [LastName_FirstName_DesiredPosition]