Internship title: Geospatial Data Analyst

Organization: SolarSPELL (Solar Powered Educational Learning Library)

Location: Tempe; remote

Type of internship: Non-paid

Application deadline: July 28th, midnight (AZ/MST)

Start date: August 18th

Description:

SolarSPELL is seeking an intern to support sustainable agriculture through soil geospatial analysis and the development of SolarSENSE, an offline solar-powered digital soil sensor.

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 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 the SolarSENSE project that will use satellite imagery process to aid in on the ground placement of SolarSENSE soil sensors. The approach is to use the imaging satellites, directed and pointed, to collect multispectral imagery over a selected coverage area. The coverage images are then provided to ASU for processing by the intern. Then, the image processing provides crop/soil status information on not only the types, but also health status, quality, quantity and location of these resources. 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 starting the internship. Ideal candidates will be detail-oriented and self-starters.

Essential Duties:
- Collect geospatial datasets from sources such as ASU Map and Geospatial Hub, Planet Inc, NASA, and others.
- Process and document datasets from above sources

Minimal Qualifications:
- ASU student
- Provide a minimum of 10 hours a week for internship
- Working knowledge of geospatial datasets and image processing.

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]