

Student Web Developer at the Agricultural Informatics Lab

At the [Agricultural Informatics Lab](#), we conduct design research and technology development to improve resilience in food and agricultural systems. We build a range of products, from farmer-facing decision support tools and community-oriented local food system toolkits, to developer-facing APIs that serve a range of agricultural data. We conduct human-centered design research, translate our findings into usable and useful software prototypes, think critically about the role of technology in local and global food systems, and build real tools for real users. Each of our projects includes: a partnership with domain experts and communities (e.g., agronomy researchers, farmers, food hub coordinators), a mix of undergraduate students, graduate students, senior personnel, and interdisciplinary faculty. All our work is grounded in community needs and desires and results in open source projects.

We are looking to hire a **web developer** who is willing to take on a range of open source software development projects across the breadth of work in our lab. You will begin with work on the **Cover Crop Decision Support Tools** project: a modular, open source set of tools to allow farmers to engage in a range of decision making activities such as choosing a cover crop, assessing their nitrogen needs, evaluating economic outcomes, and so on. Activities include:

- Implementing a web application: from setting up the server, building components, to deployment on the web.
- Creating a suite of UI widgets, such as a mixture design component, e.g., using material design components or d3.js.
- Integrating these widgets into a web framework (react.js).
- Integrate modules with farm management tools, like [FarmOS](#).
- Interfacing with technology partners at [PSA](#) and the Cover Crop Councils.

Skills & Languages Needed:

- Javascript (react.js, node.js), HTML/CSS, some Python, some SQL.
- Some familiarity with using third-party APIs e.g., for creating map components.
- Some familiarity with Material Design concepts.
- Familiarity with the MVC architecture.
- No agricultural experience is necessary, but interest encouraged!

Preferred Experience:

- Some relevant work experience in web development (can include schoolwork).
- 1-2 years of relevant educational experience building web apps and UI concepts.
- Must be enrolled or plan to be enrolled as a full time student at Purdue University.
- A portfolio, overview of previous projects, or links to sample projects, is desired.

Apply here: <https://bit.ly/axilabjobs>

You can contact Dr. Ankita Raturi (ankita@purdue.edu) for additional details and to express interest. We look forward to working with you!