

Job Posting - Software Developer

Hi Fidelity Genetics seeks a software developer.

About us: Hi Fidelity Genetics is a small start up based in Durham, NC. We develop tools to measure and predict plant traits. Such tools are essential for maintaining a sufficient supply of food as the world's population grows and its climate changes.

About the job: Hi Fidelity Genetics is currently pursuing two products and the ideal candidate will be able to contribute to both, though candidates that can make strong singular contributions will be considered as well. The first project aims to develop software for a device that measures the structure of a plant's roots, like the angle of its roots and their density. The initial work will focus on developing command line programs for the Raspberry Pi or Arduino Uno in C/C++ to control the device and collect data. Later, it will involve developing a cloud-based application to control these programs and perform data analysis. The second project aims to develop a cloud-based application that displays and analyzes spatially tagged environmental data. The application will help farmers and researchers learn about the relationship between plant traits and the environment.

It is essential that the candidate

- Develops in C/C++.
- Works in a Unix-like environment and is familiar with common Unix tools.
- Has experience with PostgreSQL or similar.

It will be very helpful if the candidate

- Has experience with Raspberry Pi- or Arduino Uno-like devices.
- Has experience developing software for wireless devices.
- Has experience with front-end web development.

Bonus points will be given to a candidate that

- Has experience with cloud computing services.
- Has a background in statistics, mathematics, or plant breeding.

Please send a resume, a portfolio or a link to your portfolio on Github or similar, and a *short* cover letter (in plaintext) explaining why you are a good match for this job to jobs@hifidelitygenetics.com. If selected we may ask for additional information, like recommendations.