

Full Time - 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 projects 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. Initially, the work will focus on creating command line programs for the Raspberry Pi or Arduino Uno in C/C++ to monitor the device and collect data. Later, it will involve building a cloud-based application to display and analyze the data.

The second project aims to develop a cloud-based application that displays and analyzes spatially tagged environmental data. This application will help farmers and researchers learn about the relationship between plant traits and the environment.

Aptitude developing software for microcontrollers is our first priority followed closely by expertise in back-end development for cloud-based applications, e.g. storing, organizing, and serving up data. A more distant priority is experience with front-end web development. It is important that the applicant likes learning and be willing to pivot if the need arises.

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-like devices.
- Has experience with front-end web development.
- Has experience developing software for wireless devices.

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 (`Lastname.Firstname.pdf`), a portfolio (`LastName.FirstName.tar.gz`) or a link to your portfolio on Github or similar, and a *short* cover letter (`Lastname.Firstname.txt`) explaining why you are a good match for this job to jobs@hifidelitygenetics.com with the subject `FullTime 2; Lastname; Firstname`. If selected we may ask for additional information, like recommendations.

The position will remain open until filled. Please check our website <http://www.hifidelitygenetics.com> for up-to-date information on open opportunities.