

# IRIS Programmer

## JOB SUMMARY

Strongest Families Institute delivers children's mental health, care from a distance using educational materials and telephone support. The Strongest Families program utilizes a sophisticated software program called IRIS: Intelligent Research Intervention Software, as an interactive intervention, research and education application. This fully developed Information Management system will require maintenance to reduce vulnerability, improve efficiencies and meet customer demands.

The position of IRIS Programmer will work with a team to manage upgrades, fixes and maintenance of the IRIS program, as well as assist with user interface and content management. The IRIS backend is built in Python and Django, using South for database migrations, and runs on Ubuntu Linux servers using Postgres as a database and Celery to manage background tasks; Chef is used for server configuration and Git/Bitbucket for version control. The front-end is written in a combination of Javascript, Coffeescript, Less, and, of course, HTML. The IRIS Programmer will work with a team on programming, within a test environment, to improve stability and performance, or to enhance functionality. They will also assist with content management within IRIS and help to envision and prioritize improvements to IRIS.

## DUTIES AND RESPONSIBILITIES

1. Programming IRIS
  - Programming new features to IRIS using Python/Django
  - Fixing bugs within existing code
  - Disc space clean-up, e.g. boot drive, and back-ups
  - Monitoring Bitbucket Issues
  - Experience with the following technologies is an asset: Python 2.7, Django (1.3 and 1.6), Bash scripting and command-line navigation on Unix-based operating systems; Chef for configuring servers; Less for CSS; Postgres and SQL; Coffeescript and Javascript for front-end programming; and Git for version control.
2. IRIS Content Management
  - Formatting user interface pages
  - Adding triggers for employees to use to improve efficiencies
  - Adding new material, such as scripts used by employees, and new user interface materials
  - Brainstorming solutions to complicated user interactions
3. Policy Development

- Assist IRIS Lead and Program Manager with development of IRIS security and operational policies
4. Student Oversight
- Assist IRIS Lead and Program Manager with developing tasks and projects for potential co-operative students
  - Assist with tracking progress of tasks and projects for potential co-operative students

### **FREEDOM TO ACT**

Work is performed in accordance with general direction from the IRIS Lead and Program Manager. Performance is reviewed on an ongoing basis by Program Manager and Program Director and yearly by the President and CEO.