Apply to work with Laura Schechter, associate professor in the departments of Economics and Agricultural and Applied Economics. In partnership with the Senegalese National Sanitation Office (ONAS), we have developed a call center for sanitation services in urban Dakar, a city in which more than 1.5 million people use septic pits for household waste.

The call center uses custom-built Python-based software to set prices: each time a customer calls and requests a quote, the platform launches and manages an auction via SMS with a randomly selected group of nearby septic truckers. The call center has been in operation for more than a year and a half, and we are now looking to implement some bug fixes and improvements to the software to ensure its ongoing success.

The programmer will work with the UW Madison-based research team to design, implement, and test the changes, and will help advise the Dakar-based operations team on how best to pull and live-test these changes.

Required knowledge, skills, and experience:
- strong Python/Django experience
- Understanding of Javascript (d3.js and similar packages for data visualization).

Beneficial knowledge, skills, and experience:
- Experience with Telecom software (OSDial)
- Experience with geolocalisation platforms
- Knowledge of the French language.

Primarily, this person would be expected to:
- Review existing Python and Django code, including integration with Telecom system
- Fix identified bugs in the code
  - Auction system problems (relaunches due to inaccessibility, penalty system)
  - Visualizations and indicators
  - Data exports
  - Search system
  - Local copy of OpenStreetMap
- Implement and test new functionality on a staging environment
  - A more robust task system
  - Survey questions for new clients (how they heard about the call center, etc)
- Adapt data import scripts to include expanded client database
- Support Dakar-based Sysadmin in pulling and testing changes remotely
- Potentially, support integration of geolocalisation system data

Work on this job would start immediately and run through the end of December. This is a part-time job. We expect approximately 100 hours of work as soon as possible, and then the remaining hours to be as needed.

To apply send a cover letter and resume, including the names and contact information for relevant references, to lschechter@wisc.edu. We will consider applications on a rolling basis, up through October 15, 2015.