Programmer

Position Title
Office for Sustainability Programmer

General Summary
The Office for Sustainability (OfS) development team is currently looking for two programmers. The programmers will join an existing team of programmers and developers to work on two major projects: a sustainability finder and an environmental game simulation.

The OfS development team is led by Drs. Harold Glasser and Alan Rea.

In these positions, students will develop full stack Web applications to primarily develop the sustainability finder but will also have the opportunity to work on the existing environmental game simulation team. Additional projects will become available as well over time.

Students will have the opportunity to work on collaborative research and presentations as well.

About the Finder
The Campus Sustainability Finder will serve as a hub to connect students, faculty, staff, and community members who are interested in collaborating or learning about sustainability projects, research, and teaching. Users will be able to search by topics or by members (the initial version will only allow WMU campus affiliates to be members). Users will also be able to refine the topic search to find “completed work,” “work in progress”, and “proposed work/aspirational projects.” In addition, members will be able to tag their name to the “aspirational projects/proposed work” fields to express their commitment to work with others on this work. A color scheme will also help users identify work that has been completed, is in progress, or is available for future collaboration with identified colleagues.

About the Game
Catch© is a systems dynamic renewable natural resource management simulation game. The game utilizes a common pool resource setting, with realistic resource dynamics, to explore real world, multi-company management of a generic open access natural resource. Various face-to-face groups from around the world have played the game. The game currently has two systems goals: (1) Catch as many fish as you can and (2) leave as many fish in the sea as possible. The goals of the game are meant to evoke collective systems thinking, thus, fostering the formation of strategy through various conditional discriminations, and discriminative stimuli, all of which can be directly observed through the users’ actions.

About the Positions
Currently the research team is looking to fill one [1] or two [2] paid positions (@ $10 an hour). Students will be expected to work at least ten (10) hours a week. More if necessary and agreed upon.

Preference will be given to students who have at least two years remaining at WMU. We are looking to hire people who intend to stay on the team long term.

The student team will be expected to work certain hours (e.g., team meetings and development sprints) at the project’s location: WMU Office for Sustainability https://wmich.edu/sustainability
Required Qualifications

- Object Oriented Programming Experience
- Familiar with Web Development
- Ability to read and interpret code
- Ability to follow team code standards
- Ability to document and maintain code
- Good collaboration skills and team player

Desired Qualifications

- Some Linux Background (or ability to learn)
- Full Stack Development Experience or Deep knowledge in one of the areas
- Some Server Administration Background
- Ability to document and maintain code via CVS (e.g., Git)
- Ability to code in a server-side language (Python preferred)
- Familiarity with Django or other Web framework

To Apply

Email a completed application to wmu-sustainability@wmich.edu with the subject line: OfS Programming Position and include
- Current Resume (PDF)
- At least two references—including contact information—with one being a WMU faculty or staff member
- Code Samples (GitHub link preferred)

Closing Date: open until filled

Note: This description indicates the general nature and level of work performed by employees in the above job. It is not intended to be a comprehensive inventory of all duties, responsibilities, and qualifications required of employees assigned to the job

Please send all queries to Dr. Alan Rea (rea@wmich.edu) with the Subject Line OfS Programming Position.