Python / Web API Developer
1/2019  Multiple Openings

Rate $16-$22/hr depending on role and skills

Job Summary
The Advanced Research Computing - Technology Services (ARC-TS) team at U-M is looking for students interested in using and developing their computational skills. ARC-TS builds and operates research computing platforms and services for faculty and students. For more information about ARC-TS visit our [website](http://arc-ts.umich.edu/).

As a member of the team, the selected candidates will develop her/his web API and developer skills as part of a core team creating a new web based API to provide users more control over their ARC-TS resources. The student will acquire first-hand knowledge of new technology as it is implemented at our facilities such as Python, Javascript, Docker, REST API's, Continuous Integration/Continuous Delivery and others.

*Freshmen* and *sophomores* are encouraged to apply as this is an multi-year ongoing opportunity and the skills developed will complement the student learning process.

Job Details
The student will be involved in one project at the time. Hours worked per week will range from 10 to 29 and are negotiable within that range during the school year. Summer a full 40 hours will be offered. Duties may include (based on qualifications):
- Create, test, debug, and document new internal and user facing REST APIs
- Automate testing, deployment, and testing of a Docker application stack
- Gather requirements from service owners and users to inform the creation of new API standards for ARC-TS resources

The successful candidate must:
- Develop and maintain positive and cooperative relationships, inside and outside the workgroup, interacting in a friendly and honest manner, and maintain agreed upon levels of confidentiality
- Be able to prevent and solve simple problems, seeking help from ARC-TS colleagues and management when required, and recognize if a problem needs to be addressed
- Take the level of action needed when opportunities for improvement are identified; make changes in their own work methods or systems to improve performance (e.g., make them faster or lower cost; improve their quality, customer satisfaction, revenues, etc.)
Required Qualifications
- Strong knowledge of Python module development and Linux command line
- Willingness to cooperate and learn from peers
- Ability to communicate moderately complex technical concepts and information effectively both verbally and in writing in a way that can be understood by various types of audiences

Desired Qualifications - Training Provided
- Understanding of any web framework eg. Flask, Django, Rails, etc.
- Docker, Docker Compose, Kubernetes or Docker Swarm basics
- GIT and Continuous Integration / Continuous Delivery
- Javascript, CSS, UI/UX
- Swagger / OpenAPI
- Test Driven Development practices

How to apply
A letter and resume are required. The letter should:
(1) specifically outline the reasons for your interest in the position;
(2) outline your particular skills and experience that directly relate to this position;

Send your application or questions to Brock Palen brockp@umich.edu.
Hourly stipend may vary depending on qualifications and experience of the selected candidate.

Additional Information
This position may work with and/or support systems that maintain or process sensitive institutional data as defined by university policy. Successful candidates must comply with federal, state, and local law, and/or university policies or agreements that require the university to implement specific privacy and security safeguards, including but not limited to ITAR, EAR, HIPAA, and FISMA.

The University of Michigan was featured as one of the "Great Colleges to Work For" in the 2015 Chronicle of Higher Education.

The University of Michigan is a recipient of the 2015 Seal of Distinction by the WorldatWork Alliance, recognizing strategies and practices that help employees achieve success in work-life effectiveness.

Application Deadline
Rolling

UM EEO/AA Statement
The University of Michigan is an equal opportunity/affirmative action employer