Simulation-Based Engineering Lab in the Mechanical Engineering Department at UW-Madison

Address: 1513 University Avenue, Madison, WI 53706  
Website: http://sbel.wisc.edu/  
Position: Systems Administrator  
Who can apply: Undergraduate students and Graduate students  
Degree(s) desired: Computer Science, Computer Engineering, AMEP, Mechanical Engineering. Any degree related to STEM with comparable experience related to description below.  
Hours expectations: About 15 hours/week during school semesters and potential for full time during the summer.  
Application Deadline: May 10th, 2017

Description
We are seeking a Systems Administrator to maintain the Euler hybrid CPU/GPU cluster located in Mechanical Engineering. Euler is operated by SBEL (Simulation-Based Engineering Lab), see http://sbel.wisc.edu/Resources/. It consists of a number of heterogeneous CPU (Intel Xeon, Intel Phi, AMD) and GPU (K20, K40, GTX1070, P100) computing resources on a Linux-based network. You will be asked to create/maintain users’ accounts, install and update software, install and update hardware, maintain system tools, and recommend new cluster hardware for updates and expansion. You would also be asked to help maintain a handful of SBEL workstations and help both SBEL and Euler users with hardware and software issues.

Job Requirements
- Experience with command-line Unix / Linux  
- Proficiency in a system scripting language such as bash, python, or perl  
- Comfort with *nix facilities such as SSH and NFS  
- Good interpersonal skills  
- Excellent documentation skills  
- Up-to-date knowledge of computer hardware maintenance (processors, GPUs, etc.)

Recommendations
- Comfort with *nix command-line tools such as sed, awk, grep, find, and vi(m)  
- Working knowledge of C/C++  
- Customer service experience  
- Previous server administration experience  
- Knowledge of a variety of modern computing standards (OpenMP, MPI, OpenGL, C++11/14/17, OpenACC)

Job Perks
- Flexible hours  
- Starting pay (negotiable): $14/hour  
- Opportunity to work with cutting edge hardware and computing tools
• Diverse workplace culture
• Ice cream and candy

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To apply, please send one email with your resume and cover letter to skuenzli@wisc.edu and negrut@wisc.edu with the headline “Application for Systems Administrator Position”.