UNIVERSITY OF RHODE ISLAND
Position Description

TITLE: Computer Engineer

DIVISION: Academic Affairs (College of Engineering)

REPORTS TO: Director, Engineering Operations

GRADE: 13

SUPERVISES: Professional, technical, and student assistants

BASIC FUNCTION:

Responsible for the operation and maintenance of the Electrical, Computer and Biomedical Engineering (ECBE) Department's computer facilities for teaching and research. Assist ECBE faculty in carrying out computer-based research and education projects. Design and implement software and hardware solutions to support this basic function.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Responsible for the twenty-four hours operation of the ECBE department's computer facilities, which includes Linux-based file/web servers coupled to an extensive network of local and remote workstations, research clusters, and other peripheral devices.

Install, upgrade and monitor software and hardware. Provide preventive maintenance for safety and continued operation of hardware/software systems.

Maintain and improve or modify the existing hardware/software systems to provide for the changing needs of the ECBE department both for teaching and research labs. Improve legacy computer networks and/or implement new networks. Coordinate both in-house and outside contractors' support.

Provide instruction in operation and use of computer facilities and remote workstation/server equipment.

Interact with other support personnel in college-wide and university-wide positions; specifically, support College of Engineering computer clusters and interface College computing to University systems.

OTHER DUTIES AND RESPONSIBILITIES:

Maintain a working inventory of both capital and operating computer equipment and supplies. Provide for the ordering and replacement of necessary components.

Perform additional duties as required.

LICENSES, TOOLS AND EQUIPMENT:

Computers, Field-Programmable Gate Arrays (FPGAs), printers, and other hardware devices. Word processing, system administration, database management, and spreadsheet software. Linux Operating System.

ENVIRONMENTAL CONDITIONS:

This position is not substantially exposed to adverse environmental conditions.

QUALIFICATIONS:

REQUIRED: Bachelor's and Master's degrees in electrical or computer engineering; Demonstrated experience in computer software, hardware and networking; Minimum four years of combined experience (post Bachelor's degree) in an academic or industrial setting with Linux-based system administration and networking, hardware and software development with Field Programmable Gate Arrays (FPGAs), and embedded systems; Demonstrated strong interpersonal and verbal communication skills; Demonstrated proficiency in written communication skills; and, Demonstrated ability to work with diverse groups/populations.

ALL REQUIREMENTS ARE SUBJECT TO POSSIBLE MODIFICATION TO REASONABLY ACCOMMODATE INDIVIDUALS WITH DISABILITIES.