



# ENGINEERING CAREER SERVICES

HOWARD R. HUGHES COLLEGE OF ENGINEERING

## ENGINEERING SOFTWARE DEVELOPER (ENTRY LEVEL)

**Posting ID:** EM1920447E

**Company Website:** <https://www.tpx.com/>

**Company:** TPX Communications

**Work Location:** 1181 Grier Dr F, Las Vegas,  
NV 89119

**Position Type:** Full-Time

**Salary:** \$25-29/hr

**College Major(s):** Computer Science (CS)

**College Level(s):** Undergraduate-Senior

### OVERVIEW

TPx is the nation's premier Managed Services Provider, delivering unified communications, managed IT and network connectivity to 55,000 customer locations across the country. Nearly two decades of proven, industry leading customer service focus embedded deep in our corporate DNA has powered more than 15 years of uninterrupted growth for TPx – all driven by earned referral, not advertising. We've evolved as technologies and marketplaces began to change so that we could always be there for our customers, able to put together the comprehensive solutions they needed, with guaranteed performance, so that they could compete, grow and focus on managing their businesses, confident that we were there for them.

#### General Purpose:

The core function of this position is to plan, design and implement applications and tools that improve TPx's workflows, test efficiency and network consistency. The Developer will be responsible for participating in the technical design, development, installation, integration, testing, documentation and maintenance of multiple complex Engineering applications. This position will design applications that script or automate technical processes for both lab testing and production deployments.

#### Roles and Responsibilities

The core function of this position is to plan, design and implement applications and tools that improve TPx's workflows, test efficiency and network consistency. The Developer will be responsible for participating in the technical designs, development, installation, integration, testing, documentation and maintenance of multiple complex Engineering applications. This position will design applications that script or automate technical processes for both lab testing and production deployments.

#### Essential Duties and Responsibilities:

\* Primarily using Python, develop automated solutions for executing different types of lab test plans for hardware and firmware certification

- \* Develop automation for making configuration changes in mass to the SIP endpoints and other CPE devices on the production network
- \* Create a scripted application that can perform network-wide firmware updates to the SIP endpoints and other CPE devices on the production network
- \* Develop and direct system testing and validation procedures, programming and documentation
- \* Analyze user needs and requirements to determine design feasibility within time and budgetary constraints
- \* Incorporate user acceptance testing procedures for quality assurance of developed applications
- \* Construct applications that interface with other currently used department and company applications, both CLI and WebGUI.

Peripheral Duties:

- \* Work with multiple Engineering and Operations departments to develop tools, scripts or databases
- \* This individual must have a team orientation and be able to professionally interact with executives, managers and subject matter experts, as well as be the liaison between business units, technology, and support teams.

### **Education and Qualifications**

Bachelor of Science degree.

### **Preferred Skills**

- \* Linux
- \* Scripting language in a Linux environment like Perl, TCL, Python
- \* Rest API, HTML, JSON, XML
- \* Visual Studio, SQL
- \* IP network/routing protocols and SIP voice network design
- \* Understanding of Telnet, SSh, HTTP, HTTPS and other communication protocols
- \* Lab testing applications like IXIA IxNetwork, IxLoad and Spirent iTest, Abacus

Special Requirements:

- \* Occasional travel may be necessary, by air and by vehicle

### **How to Apply**

Send resume and cover letter to: [nestor@objectinformation.com](mailto:nestor@objectinformation.com)