

**Job Title: Firmware Applications Engineer**

**Location: Taipei, TW**

**Reference: (external)**

Education Level Required:

Bachelor's degree in Computer Engineering, Software Engineering, or above

% of Travel: 25%

Location: Taipei, Taiwan

Division Name: DCS

# of Hires Needed: 1

**About the Job**

Datacenter Solutions Business Unit – Microchip Technology

Our Datacenter and Server Applications Engineering Team are responsible for working closely with the Product Development Teams, Product Validation Teams, Marketing Teams, and Sales Teams to provide world-class technical customer support. We provide technical support to assist in design wins, customer product ramp, and customer product production. In this position, you will be part of a best-in-class team working directly with our customers in Taiwan, North America, and other regions to make substantial contributions toward the success of Microchip.

Our team is looking for an experienced firmware engineer with a background in FW development, embedded systems, real-time and multithreaded environments, with an interest in a customer facing role.

**Responsibilities**

- Support SAS/SATA Protocol and RAID controller embedded firmware, OS drivers, and management software, and advise customers on improving their designs based on Microchip's design guidelines.
- Support, manage, and maintain firmware for processor-based storage integrated circuits and reference designs.
- Work closely with Tier 1 OEMs and their ODMs to define requirements, manage deliverables, assist with new product design wins, and support initial system bring-up to full production.
- Understand customer architectures and SW designs to closely work with engineering in providing timely customer technical support of post-production products.
- Work independently, and in a team environment
- Root cause customer issues in a timely manner independently or by leading a cross-functional team.
- Develop and review customer level documentation including user guides, release notes, technical product training, and application notes.
- Understand customer requirements and drive them through the project management process.
- Travel within Taiwan and internationally as needed, to work at customer sites to debug systems involving software and firmware for the market leading Microchip server/storage device product lines.

## **Qualifications**

- Bachelor's degree in Computer Engineering, Software Engineering, or a related field
- Minimum 5 years of experience
- Strong system, software, and firmware development and debugging skills
  - Experience with C and object-oriented languages
  - RTOS and embedded systems experience
- Experience with ASIC and embedded applications debugging
- Strong technical leadership, teamwork, communication and presentation skills
- Experience with bench top equipment such as protocol analyzers/exercisers, logic analyzers, and other storage or networking related test equipment
- Ability to effectively work with cross-functional teams and across multiple geographical locations
- Functional spoken/written English

## **Desired Qualifications**

- Familiarity with storage networking concepts and protocols (SCSI, SAS and SATA, iSCSI, PCI, PCI-Express, Ethernet)
- Experience with RISC based embedded processors (MIPS, ARM)
- Hardware and chip development/debug skills
- Experience with high speed debug equipment like oscilloscopes, DCAJ and BERT
- Past work with Unix & Wintel drivers and experience in FW development with light weight embedded kernels (ThreadX, VxWorks, eCos, etc.)
- Fundamental understanding of RAID
- Experience with mass storage firmware and software
- Performance measurement and analysis experience
- Debugging skills and experience with kernel (Windbg), JTAG, serial port, Greenhills Debugger
- Experience working with Marketing and Sales teams
- Experience in the Storage Industry
- TCP/IP knowledge/experience
- Local Area Networking (LAN) experience