Project from Collins Aerospace

Project Title: Digital Transformation of Engineering Documentation System-Phase 5

Description:

Currently, engineering documents are created and exist as PDF documents controlled in the company's PLM system. This poses several usability issues to the manual. First of all, the content of the documents is not searchable inside the PLM system.

Users have to first manually identify the document number he/she needs, download the latest revision of the document and get to the information required.

This process has to be repeated every time any information is needed from the document as one can only guarantee he/she has the latest copy by downloading fresh from the PLM system.

Another drawback to the current system is that different engineers create documents in different formatting, styling, templates, etc.

When an official document template is updated, it translates into hundreds of engineering hours used to changing document template alone, which is non-value added for engineering work. The ideal candidate to this position will be able to demonstrate experience in software, app or web development.

The student hired is expected to perform the following tasks: - Build the infrastructure on provided hardware - Setup access/modification notification and control on the framework - Ensure the server meets all internal IT and security compliance requirements - Migrate content from current PDF to the new framework - Support troubleshooting and update on staging and production server - Document the new system using internal standard work instruction format In addition, the student may also get involved in other technical projects including but not limited to: - Researching air transport regulations and means of compliance used by Landing System - Researching risk assessment methodologies for in-service components - Studying and compiling test data and industry knowledge on material allowables