

Reference	IT-ST-28
Project/ Activity	FTS Python framework migration
Duration	1 year, renewable (maximum 2 years)
Description	<p>The File Transfer Service (FTS) developed at CERN is a fundamental component for the LHC experiments and is tightly integrated with experiment frameworks. The File Transfer Service (FTS) is distributing the majority of the Large Hadron Collider (LHC) data across the Worldwide LHC Computing Grid (WLCG) infrastructure and is integrated with experiment frameworks such as Rucio, PhEDEx and DIRAC. It is used by more than 30 experiments at CERN and in other data-intensive sciences outside of the LHC and even outside the High Energy Physics (HEP) domain.</p> <p>With the rapid increase in popularity, it is more important than ever for the system to undergo a consolidation phase. The candidate will contribute in the service development, continuous integration, testing and monitoring.</p>
Profile	<p>The candidate should have demonstrated practical experience in at least one of the following areas:</p> <ul style="list-style-type: none"> Experience in software development using Python Good knowledge of C/C++ (or other Object-Oriented compiled languages) is a plus Comfortable in system administration under Linux Knowledge about software testing methodologies Willing to learn about distributed systems, debugging, continuous integration and service monitoring
Specific details	<p>As a member of the File Transfer Service team, you will bring contributions on the following aspects:</p> <ul style="list-style-type: none"> Improve the Continuous Integration and testing infrastructure Migration of components from Python2 to Python3 Set up and perform code health and monitoring techniques Help implement an improved error reporting system