

Training Opportunity for Swiss Trainees

Reference	Title	Duty Station
CH-2018-ST5-FFS	Future Launchers Preparatory Programme	ESA HQ Daumesnil
<p>Overview of the unit's mission:</p> <p>As part of the Space Transportation Directorate in the ESA organization, the Future Launchers Preparatory Programme (FLPP) is the System/Services, Demonstrator and Technology preparation place for all future mid and Long term Space Transportation Systems.</p> <p>The Unit aims at conducting preparatory activities for new space transportation systems in Europe to better respond to future European institutional needs, to increase the overall competitiveness of the European space transportation sector and to reduce Time to Market.</p> <p>Through contracts with Industry, FLPP ensures the definition of new concept of Space transportation Systems in parallel and in coherence with the identification, selection and maturation of readily available promising/disruptive demonstrators and technologies.</p>		
<p>Overview of the field of activity proposed:</p> <p>Joining the FLPP System team, you will:</p> <ul style="list-style-type: none"> • Define with your tutor the targets and major steps of your work relevant to Space Transportation System from Earth to Space and in Space. • Work with a large degree of autonomy, accessing inputs as per relevance and possibility • Present a progress status every 2 months <p>Proposed tasks:</p> <ul style="list-style-type: none"> • Ensure mission, trajectory and performance analysis for different Space transportation concepts (including Heavy, medium, micro-launchers), using characteristics of technologies and demonstrators. This shall be conducted in collaboration with the FLPP Technical support team from ESTEC. • Support the line manager (System Manager) for the elaboration of scenarios for de-orbiting in order to reduce the performance and costs impact (could be controlled or not controlled re-entry) • Prepare and feed an internal data-base for costing assessment and elaborate a tool assessing the optimal cost of Space transportation service based on various fleet configurations 		
<p>Required education:</p> <p>Background / knowledge:</p> <ul style="list-style-type: none"> • Applicants should have just completed (conclusion not older than two years) or be in their final year of a university course at Master's level in a technical or scientific discipline, with a background in the field of aerospace. • Candidates must be fluent in English or French, the official languages of the agency • Applicants should detain Basics of and motivation for project management <p>Behaviour:</p> <ul style="list-style-type: none"> • Ability to investigate, be curious and synthetic • Ability to work in a team, with all the associated constraints and opportunities • Ability to communicate with ease • Ability to conduct technical analysis 		