

Training Opportunity for Belgian Trainees

Reference	Title of Training Opportunity	Duty Station
BE-2020-OPS-SW	o) Operational Space Weather N	Monitoring ESOC
their potential risk to Programme Office is owners and operato information that will e is responsible for d operational space w	hit's mission: Programme has the overall aim to detect, p o life, property and infrastructure. The Spa addressing those risks associated to the ac ors of critical spaceborne and ground-ba hable mitigation of the adverse impacts of sp efining and implementing European space eather services. It is also responsible for rds fulfilling the needs of European space we	ace Weather Office under Space Safety ctivity of our Sun with the goal of providing ased infrastructure timely and accurate bace weather. ESA's Space Weather Office e based observation systems to enable pre-operational developments and R&E
Monitoring of the Ear Weather and the mo complexity of Earth's capture the state of the points around the Ear sufficient accuracy ar ESA is implementing Weather Sensor System important aspect for sufficiently long lifetim	eld of activity proposed: th's and Sun's environment is an essential t delling of interactions between the Sun ar magnetosphere, the involved particle enviro the magnetic field and the particle distribution rth, such that it allows state-monitoring and d timeliness. a space weather monitoring system, includin tem (D3S) to observe the effects of solar the realisation of observation systems for S the and low data latencies because the data oad missions of D3S have been realised with	nd the Earth. Due to the asymmetry and onment and its dynamics, it is necessary to n in a sufficiently large number of sampling d modelling of the involved processes with ng the establishment of a Distributed Space activity within Earth's magnetosphere. An space Safety is the need of high reliability will be used in operational purposes. Two
flying on two difference conditions and an add The project in this t instrument performant to support the operation	nt GEO satellites providing near-real time litional radiation monitor will fly on a GEO mi raining opportunity will develop software to ce, data validation and space weather cond ions of the hosted payload missions. You w ations planning of the hosted payload inst	e information on current space weathe ission in 2021. ools for the monitoring of space weathe ditions in near-real time, which will be used will also directly be involved in the mission
developmenTechnical krGood interpeAbility to wo	degree in physics or engineering preferably ; owledge: C/C++, data visualization; ersonal and communication skills; k in a multi- cultural environment as part of a	a team;
	many anguar Franch the Working language	es of the Agency; A good proficiency of

