ABB is a pioneering technology leader in electrification products, robotics and motion, industrial automation and power grids, serving customers in utilities, industry and transport & infrastructure globally. Continuing a history of innovation spanning more than 130 years, ABB today is writing the future of industrial digitalization with two clear value propositions: bringing electricity from any power plant to any plug and automating industries from natural resources to finished products. ABB operates in more than 100 countries with about 135,000 employees, thereof 6,000 in Switzerland.

ABB Power Protection was founded in Ticino, Switzerland in 1993 and is part of the ABB Group since 2012; it develops and produces technologically advanced UPS systems for mission critical applications. Its main operations are based in Quartino. ABB Power Protection introduced modular and transformer-less UPS technology to the UPS market,these are now the most important architectural trends in the UPS market today.

ABB Power Protection is offering
Several Internship opportunities in Operations (production)

Team	Title	Description	Tasks	Specialization	Minimum level (years of study)	Duration
Operations	On-time delivery analysis	On-time delivery to customers is measured and delay reasons like missing material, production capacity, etc. are reported.	Analyze the root causes for the most frequent delay reasons. Define improvement actions. (A simulation model could be developed to predict consequential delays.)	Production engineering	1 year	Min. 2 months
Operations	Safety stock analysis *	Missing material interrupts the production process. Sometimes demand exceeds the forecast.	Analyze most frequently missing materials and develop tools which can support of analyzing and defining the safety stock level	Production engineering, SCM	1 year	Min. 1 month
Assembly	UpScale: space optimization *	Frequently and non-frequently used material is stored in the production line occupying space.	Analyze the frequency of use and propose a different logistics concept to save space and optimize logistics.	any	-	1 month

Assembly	DPA500: Space optimization *	Frequently and non-frequently used material is stored in the production line occupying space.	Analyze the frequency of use and propose a different logistics concept to save space and optimize logistics.	any	-	1 month
Assembly	Assembly times	Production capacity and cost are calculated based on standard times. Actual times can vary for different reasons.	Measure actual times of assembly, analyze variation and update standard times or propose improvement actions to avoid some variations.	any	-	1 month
Assembly	Lean production UpScale	The UpScale product line is assembled in 5 work centers.	Develop and implement a concept for flow production considering the different sizes of UPS with their different complexity and assembly times.	Production engineering	1 year	Min. 2 months
Spare parts testing	Test equipment for automatic test	Many PCBA spare part are tested manually inside the product before delivery.	Develop a specific test equipment for automatic test of a PCBA including mechanical hardware, electrical components and connections and test software if required.	Electrical engineering	2 year	Min. 2 months
Final testing	Testing times	Production capacity and cost are calculated based on standard times. Actual times can vary for different reasons.	Measure actual times of assembly, analyze variation and update standard times or propose improvement actions to avoid some variations.	any	-	1 month
Final testing	Lean testing	UPS are mainly tested manually each at a different test machine. Sometimes moving from one to the other test machine required disconnecting and connecting the UPS.	Analyze the test procedure and equipment and propose and implement improvements regarding test procedure, equipment, layout and test flow.	Electrical engineering	1 year	Min. 2 months

Packing	Lean packing	Modules and small UPS are packed at the same location as the big UPS.	Develop and implement a lean packing line for modules and small UPS.	Production engineering	1 year	2 months

* could require support/cooperation from SCM and Logistics

Interested in joining our team? If so, apply by sending your resume and motivation letter, indicating the title of the position / area of interest, to our HR Business Partner Ticino, Mrs. Katja Lonz katja.lonz@ch.abb.com

A better world begins with you at ABB!