

EDMS NO.	REV.	VALIDITY
1771839	1.0	VALID

REFERENCE : NOT REQUIRED

HL-LHC Resource	s request
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Date: 2017-03-20	Title Position/Task: Mechanical Engineer - vacuum system in high radiation	
Project/Activity: WP12	environment	
Description Project:		
Design of vacuum system in high radiation environment		
Task:		
After having characterised the thermal mechanical behaviour of shape memory alloys, the final geometries of the shape memory alloy connectors have to be designed depending on the vacuum chamber sizes. The long term performance of the assembly has to be assessed in accelerator environment. In addition, an unclamping device, based on a cooling of the connectors, has to be designed.		
The implementation of this new UHV connector design has to be addressed for the HL-LHC project (collimators, Q1/TAS areas).		
Profile: Mechanical – material engineer (PhD)		
Experience: Shape memory alloy chara FE simulations Specific details: Requester: TE-VSC Starting date: July 2017	acterisation and modelisation.	