Job Title			Research Associate - RF Design Engineer				
No. of Positions			01				
Duration			3 Years				
	School/In	stitute/Centre	SINES				
1	Purpose of Position						
	The RF Design Engineer shall be responsible to design the RF front-end of the radar system.						
2	Functions/Duties (Key Responsibilities)						
	 RF Design Engineer should be able to: Design, Analyze and work with RF modules & sub-systems Design PCBs Stuff and test the designed modules Handle RF equipment Knowledge of precautions for handling RF components and equipment 						
3	Requirements						
	Essential Desired						
Qualifications							
Qu	alifications	Bachelors in Electronics/Electr Engineering or releva with experience fro	nt field relevant field with experience m HEC in RF & Microwave				
	alifications xperience	Electronics/Electronics/Electronics/Electronics/Electronics/Electronics/Electronics/Electronics/Electronics/Ele	nt field relevant field with experience m HEC in RF & Microwave tion				
E) Kn Skill		Electronics/Electr	Int field relevant field with experience in RF & Microwave tion RF & 2 years experience in RF & Microwave skills kills				
E) Kn Skill	xperience nowledge/ ls/Abilities/	Electronics/Electr	Int field relevant field with experience in RF & Microwave tion RF & 2 years experience in RF & Microwave skills kills skills f/EMC compliance standards equipment/instruments				

Job Title			Research Associate - Antenna Design Engineer			
No. of Positions				01		
Duration			3 Years			
	School/In	stitute/Centre		SINES		
1	Purpose of Position					
	The Antenna Design Engineer shall be responsible to design the antenna assembly of the radar system.					
2	Functions/Duties (Key Responsibilities)					
	 Antenna Design Engineer should be able to: Design, Analyze and work with antenna assemblies, modules & sub-systems Design PCBs Stuff and test the designed modules Handle RF equipment Knowledge of precautions for handling RF components and equipment 					
3		Re	equirements			
	1	Essential		Desired		
Qualifications Experience		Bachelors in Electronics/Electr Engineering or releva with experience from recognized institu	int field m HEC	Master's degree in EE or relevant field with experience in Antenna /RF & Microwave		
		1 year experience in A /RF & Microway	Antenna	2 years experience in Antenna /RF & Microwave		
Knowledge/ Skills/Abilities/ Competencies		 Antenna charact Report writing s Well versed with Knowledge of RI Able to use test 	Antenna / RF & Microwave skills Antenna characterization skills Report writing skills Well versed with antenna design EM software tools Knowledge of RF/EMC compliance standards Able to use test equipment/instruments Able to communicate with other team members			
4	How to Apply					
Please email your resume to projectposition@sines.nust.edu.pk only if you fulfil the criteria mentioned above with job title "Antenna Design Engineer" in the subject field by 15 th April 2022.						

	Job T	itle	Signal P	Research Associate - Processing /Embedded System Engineer		
	No. of Positions			01		
	Duration			3 Years		
	School/Institute/Centre			SINES		
1		Purpose of Position				
2	The Signal Processing / Embedded System Engineer shall be responsible to design signal processing algorithms and use embedded and power sub-systems for the overall radar system. The primary task of embedded design engineer is to map control and signal processing functions of radar on different hardware platforms. This includes knowledge of signal processing algorithms and different processing platforms including FPGAs, embedded GPUs, DSPs.					
2	Functions/Duties (Key Responsibilities) Signal Processing / Embedded System Engineer should be able to:					
	 Design signal processing chain for radar Performance quantification of algorithms Analyze data and perform data acquisition through multiple interfaces Design target detection and classification algorithms using AI/ML Work with FPGAs, microcontrollers, embedded GPUs, edge compute devices Map control, signal processing and AI modules on software and hardware Design embedded and power module circuits Integrate and test the designed modules with other sub-systems 					
3		Ree	quirements			
		Essential		Desired		
Q	ualifications	Bachelors in Electroni Engineering or releva experience from HEC institutior	nt field with recognized	Master's degree in EE or relevant field with experience in Radar		
	Experience	Min 1 year in sim	ilar role	2 years experience in Embedded Systems and/or Power Electronics		
Knowledge/ Skills/Abilities/ Competencies		 Hands on Digital Signal Processing skills Understanding of ML algorithms for detection and classification Be able to acquire data from a variety of communication interfaces 				

	 Hands on experience of performing signal processing simulations, filtering methods in MATLAB Simulink or other tools Be able to evaluate performance of algorithms Digital system design using FPGAs (Verilog/VHDL) Microcontrollers software development and testing skills Power Electronics software and testing skills Circuit designing skills Intellectually curious, should be a quick learner and not hesitant to try new tools Report writing skills Able to use test equipment/instruments Able to communicate with other team members 		
4	How to Apply		
menti	email your resume to <u>projectposition@sines.nust.edu.pk</u> only if you fulfil the criteria oned above with job title "Signal Processing /Embedded System Engineer" in the t field by 15 th April 2022.		