Job Title				Research Assistant	
No. of Positions				01	
Duration				2 Years	
School/Institute/Centre				SINES	
1	Purpose of Position				
	The research assistant should be able to pursue research, development, and documentation				
	a funded project on VR-based learning in complex domains. The position requires the				
	assist the PI in consolidating 3D models/simulations, design of experiment, and analysis of				
	gathered in the user study.				
2	Functions/Duties (Key Responsibilities)				
	The tasks include: • Development realistic 3D models optimized for VR				
	Work on gameplay systems/tools to build simulations				
	Collaborate with team members to design solutions and plan the experiments				
	Coordinate the conduct of user study on human participants				
	Analyze data gathered from the experiments				
	• Docum	ent results in the form of r	reports and res	earch publications	
3	Requirements				
		Essential		Desired	
Qualifications		Bachelor's degree in Co Engineering or relevant fi HEC recognized institu	ield from	Master's degree in EE/CE/CS or relevant field with demonstrable	
		equivalent demonstrable e		experience	
Ex	perience		experience	experience gramming (in Unity or Unreal	
Kn Skill	owledge/ s/Abilities/ npetencies	 2 years' experience in garengine) Thorough understanding Sound knowledge of control Strong coding experient Strong problem-solving Ability to write clear, mand practices 	experience ame related prog age of game engir amputer graphicate g skills naintainable, por	gramming (in Unity or Unreal nes	
Kn Skill Con	owledge/ s/Abilities/	 2 years' experience in gaengine) Thorough understandin Sound knowledge of co Strong coding experien Strong problem-solving Ability to write clear, mand practices Experience with conduction 	experience ame related prog age of game engir amputer graphica ace a skills anintainable, por act of user study	gramming (in Unity or Unreal	
Kn Skill	owledge/ s/Abilities/	 2 years' experience in gaengine) Thorough understandin Sound knowledge of co Strong coding experien Strong problem-solving Ability to write clear, mand practices Experience with conduction 	experience ame related prog age of game engir amputer graphicate g skills naintainable, por	gramming (in Unity or Unreal nes	

Please email your resume to shahzad.rasool@sines.nust.edu.pk only if you fulfill the criteria mentioned above with job title "Research Assistant - VR" in the subject field by 25th Aug 2023.

Job Title			MS/MPhil Student			
No. of Positions			02			
Duration			1 Year			
School/Institute/Centre			SINES			
1	Purpose of Position					
	The student should be able to pursue research and development of a funded project on VR-					
	based learning in complex domains. The position requires the student to create 3D models ar					
	simulations th	nulations that will be used by other team members to conduct a user study.				
2	Functions/Duties (Key Responsibilities)					
	 Design and create highly realistic 3D models for build VR/AR experiences 					
	 Lighting and Shading VR scenes and assets in game engines 					
	Create and debug shader and materials graphs					
	Optimize 3D assets for VR					
	_	n and develop full-featured systems from the ground up				
		e materials and other graphic asset libraries, standardize workflows				
	Assist	t in setting up mixed reality studio and build MR experiences				
3		Requirements				
Qualifications		Essential	Desired			
		Bachelors in Computer				
		Engineering or rele				
		discipline from HEC rec				
		institution and enrolled	in an MS experience			
		program				
			erience will be preferred			
		Understanding of 3D content principles				
Kr	nowledge/	 Experience working with 3D content creation tools such as 3ds Max, 				
Skills/Abilities/		Maya, Blender, etc.				
Cor	mpetencies	Strong foundation of look development, lighting/camera composition Data it as is not a deviate at a second position and its asset of a second position.				
		 Detail-oriented with strong communication skills Hands-on experience working with game engines and/or APIs is a plus 				
4						
Please email your resume to shahzad.rasool@sines.nust.edu.pk only if you fulfill the criteria mentioned above with job title "Student – VR" in the subject field by 25th Aug 2023.						
mentioned above with job title Student - vn in the subject held by 25 Aug 2025.						