

Mahatma Gandhi University  
Priyadarsini Hills P.O  
Kottayam, Kerala

**Notification for Various Research Positions**

Applications are invited for various research positions to work on various projects under RUSA Scheme. The duration of the project is one year.

**Title of the Project: Content Enrichment for Heritage Tourism Interpretation in Museum Environments through Augmented Reality, Virtual Reality and Holography**

Human Resources	Requirements:	Contact Person details
Research Associate (Project Manager & Operations Head)- 1No Rs. 50,000 Consolidated	<ul style="list-style-type: none"><li>• PhD/Master's Degree in Computer Science, Computer Engineering, Applied Electronics or a similar field.</li><li>• Minimum 5 years industry experience in the IT Industry.</li><li>• Project management experience in unity or Unity3D development for AR/VR projects.</li><li>• Thorough working knowledge of software processes (development, configuration, testing, and deployment)</li><li>• Knowledge of programming languages such as C++ and C#</li><li>• Ability to constantly learn and stay in touch with evolving game standards and development technologies.</li><li>• Working knowledge of AR/VR concepts and solutions</li><li>• Understanding of acting techniques, cinematography, and visual storytelling</li><li>• Good communication skills.</li></ul>	Prof. Robinet Jacob Professor & RUSA Co-ordinator  School of Tourism Studies, Mahatma Gandhi University, Priyadarsini Hills PO, Kottayam- 686560  Email:robinetjacob@mgu.ac.in

	<ul style="list-style-type: none"> <li>• Familiarity with scene designing and planning</li> <li>• Understanding of console and mobile game development.</li> <li>• Experience with memory and space optimization.</li> <li>• Knowledge of scripting, animation, session management, and textures.</li> </ul>	
<p>Research Associate (Unity Developer) - 1No Rs. 50,000 Consolidated</p>	<ul style="list-style-type: none"> <li>• PhD/Master's Degree in Computer Science, Computer Engineering, Applied Electronics or a similar field.</li> <li>• Minimum 3 years industry experience in the IT Industry.</li> <li>• Previous experience working in unity or as Unity3D developer.</li> <li>• In-depth knowledge of unity and Unity3D software.</li> <li>• Knowledge of 3D development and integrated game physics.</li> <li>• Proficiency in programming languages such as C++, JAVA and C#</li> <li>• Ability to use 3D tools like Maya, Blender, 3D MAX and Autodesk 3D.</li> <li>• Video/sound production skills.</li> <li>• Strong UI/UX skills.</li> <li>• Game development.</li> <li>• Experience with console and mobile game development.</li> <li>• Good communication skills.</li> <li>• Experience with memory and space optimization.</li> <li>• Knowledge of scripting, animation, session management, and textures.</li> <li>• Good troubleshooting skills.</li> <li>• Excellent attention to detail.</li> </ul>	
	<ul style="list-style-type: none"> <li>• PhD/Master's Degree in Computer Science, Computer Engineering,</li> </ul>	

<p>Research Associate (AR/VR Developer)- 1No Rs. 50,000 Consolidated</p>	<p>Applied Electronics or a similar field.</p> <ul style="list-style-type: none"> <li>• Minimum 3 years of industry experience in the software/game industry as an engineer or developer</li> <li>• Hands on experience with object-oriented programming (C#, node.js, Java, ...)</li> <li>• Working experience in REST, MQTT, and/or similar interfaces.</li> <li>• Proficient with different database flavors (querying, modifying, inserting, ...) (SQL, NoSQL, etc.)</li> <li>• Working knowledge of AR/VR concepts and solutions</li> <li>• Thorough working knowledge of software processes (development, configuration, testing, and deployment)</li> </ul>	
<p>Research Associate (3D Designer/Blender)- 1No Rs. 50,000 Consolidated</p>	<ul style="list-style-type: none"> <li>• PhD/Master's Degree in Computer Science, Computer Engineering, Applied Electronics or a similar field.</li> <li>• Minimum 3 years of industry experience</li> <li>• Ability to visualize 3D iterations of two-dimensional storyboards and artwork</li> <li>• Good instinct for timing, movement, and editing cuts</li> <li>• Experience working with 3D models and rigs</li> <li>• Understanding of acting techniques, cinematography, and visual storytelling</li> <li>• Understanding of anatomy, how limbs move, the effect of weight, and the behavior of skin and flesh</li> <li>• Knowledge of film and animation genres, and ability to work within these styles</li> <li>• Advanced concept of visual</li> </ul>	

	<p>language - perspective, point of view, proportion, color, composition, framing, etc.</p> <ul style="list-style-type: none"> <li>• Working knowledge of the laws of physics - gravity, acceleration, and the laws of energy</li> </ul>	
<p>Research Associate (Architecture) 1No Rs. 50,000 Consolidated</p>	<ul style="list-style-type: none"> <li>• PhD/Master's Degree in Architecture or a similar field.</li> <li>• Minimum 3 years of industry/academic experience</li> <li>• Experience in working with 2D/3D models</li> <li>• Previous experience in case studies related to heritage tourism development.</li> <li>• Working experience in software like AutoCAD, ArchiCAD, Revit &amp; Sketchup and/or similar interfaces.</li> <li>• Advanced concept of design frameworks - perspective, point of view, proportion, colour, composition, framing, etc.</li> </ul>	
<p>Research Associate (Archaeology &amp; Museology) 1No Rs. 50,000 Consolidated</p>	<ul style="list-style-type: none"> <li>• PhD/ Master's Degree in Archaeology or similar field.</li> <li>• Minimum 3 years of industry/academic experience</li> <li>• Experience in museum designing, material conservation, museum management and documentation.</li> <li>• Familiarity with 2D/3D Animations, designing and development</li> </ul>	

**Title: Effective Cross-Cultural Communication through Virtual Storytelling Tours - Reporting the Realities through the Lenses of Regional and International Case Studies**

Position & Fellowship	Qualification	Contact Person details
Research Associate-1 No Rs. 50,000 Consolidated	Essential Qualifications: (a) PhD degree in Tourism & Travel /Hospitality Management or (b) Masters in Tourism & Travel /Hospitality Management with 3 years of research/ industry experience and proven track record in product development	Prof. Robinet Jacob Professor & RUSA Co-ordinator School of Tourism Studies, Mahatma Gandhi University, Priyadarsini Hills PO, Kottayam-686560 Email:robinetjacob@mgu.ac.in
Junior Research Fellow-2 Nos Rs. 30,000 Consolidated	Masters in Tourism & Travel, Hospitality Management with preference to holders of NET or equivalent national level eligibility tests.	

Eligible and interested candidates should send their application with a complete CV and other relevant documents as a single pdf file to robinetjacob@mgu.ac.in. All documents should be mailed on or before 22<sup>th</sup> July 2023, 5 pm. The interview date and details will be informed to the shortlisted candidates via email.

Sd/-

Prof. Robinet Jacob Professor & Principal Investigator,  
 School of Tourism Studies