

Submission Option #5

Your name: Chris Freeman	
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What type of research project?	
Analysis of Software or Hardware Issues	Click here → <input checked="" type="checkbox"/>
Market Research	Click here → <input type="checkbox"/>
Business Process Innovation Issues	Click here → <input type="checkbox"/>
New Standards Development	Click here → <input type="checkbox"/>
Topic of proposed research project	
<i>Please make this field (the title of your submission) as descriptive as possible</i>	
Framework for benchmarking optimisation software	
Goal of research project (400 words)	
<i>When describing the topic you propose the AREA to study, focus on wider ambition, define the aim or desired result. What is the challenge that this research project would seek to address/resolve? Who's problem will this research project address? What you are looking to understand, create or find out more insight?</i>	
<p>There are currently a number of data translation and optimization tool sets on the market.</p> <p>There is currently no standard method for benchmarking and subsequently comparing these applications. With offerings on the market from Microsoft Simplygon, InstaLOD, Theorem, PiXYZ Studio, SpaceClaim, plus some internal tools in Unity and Unreal (DataSmith) it is difficult to define not necessarily which is best, but which are best suited to a defined set of requirements.</p> <p>The goal would be to create a framework which would enable the technology to be placed into a matrix based on key criteria including functionality and parametric vs volumetric accuracy.</p>	
What are the specific objectives for the research?	
<i>Please use SMART objectives (Specific, Measureable, Achievable, Realistic and Time-based) – clearly define the objectives (these can be, for example, the preparation of specific deliverables) so they can be measured against the project outcomes.</i>	
<ol style="list-style-type: none"> <li>1. Create a repeatable method to benchmark such technology.</li> <li>2. Conduct market analysis to identify current providers.</li> <li>3. Use the as defined method to benchmark current practitioners.</li> <li>4. Creation of a matrix to map results.</li> </ol>	
Who do you think has expertise to conduct this research?	
<i>You can suggest your own organization or a third party.</i>	
The AMRC.	