CSC 450, Senior Research Research Proposal

The purpose of a **research proposal** is to convince a funding agency or organization to support the proposed research (in the context of providing money, resources, and time), instead of other possible research projects.

In your proposal, you should attempt to convince the reader (i.e., me) that the research (1) addresses an important question/issue and is therefore *significant* or *necessary*, and (2) can successfully be carried out by the individual(s) proposing it. Note that I do not need to necessarily be convinced of both of these, but you will be evaluated by your attempt at this.

If you are working in a group, you should submit a single proposal, and your proposal should describe how the work will be divided between team members and separately address each person's qualifications for the work.

The proposal must be submitted through Blackboard before the due date to receive credit.

Your proposal should contain the following sections: Abstract, Background and Significance, Methodology, Statement of Qualification, Expected Outcomes, and Bibliography. Your proposal will be evaluated using the rubric on the following page and will be graded out of 100 points.

Note for rubric on following page:

¹Objective: your object will be to develop a new method, algorithm, or tool, or to answer a specific question (e.g., to determine if Method 1 is faster than Method 2).

²Methodology: If you are working in a team, clearly state how the work will be divided between team members (you are free to change this later on, but your proposal should indicate that you have thought ahead about how the work will be split up). The methodology describes how you will answer your research question, or how you will develop the proposed method or tool.

Component	Points	Poor	Average	Excellent
		(D-F range)	(C range)	(A range)
Abstract	10	There is no abstract or the	The description is a little unclear and is	A clear and concise description of the proposal in no
		abstract exceeds the word limit.	missing either the background and	more than 150 words that briefly mentions/summarizes
			significance, the objective, or the	the background and significance of the work, the
			methodology.	objective, and the methodology
Background /	15	One or both of the sections are	The section is not written clearly or is	A clear and concise description of the significance and
Significance		missing	much too technical in nature.	background relevant to the project. These should be
				relatively non-technical and accessible to any individual
				with a basic background in computer science. The
				objective is clearly stated.1
Methodology	15	One of the sections is missing	The methodology is not clear or is not	The methodology that will be used to carry out the
			complete. A timeline is provided but is	project is clearly provided, and a timeline is included.
			not comprehensive.	The timeline includes preparing for and giving a
				presentation (around the end of April) and writing the
Q: :	4.7		***	final paper (due at the beginning of May) ² .
Statement of	15	Section is missing	Very few qualifications are provided.	A clear statement is made regarding the qualifications of
Qualification				the applicant(s) to carry out the proposed project. If
				applicants are not directly qualified, then broader
				qualifications are discussed providing evidence that the
E-mastad	15	Castian is missing	Not all annested automore and	applicant has the ability to carry out the proposed work.
Expected Outcomes	13	Section is missing	Not all expected outcomes are	All expected outcomes are described, including expected
Outcomes			described. For example, there is no mention that a presentation will be	findings from research, and tangible products such as a presentation and a manuscript.
			given.	presentation and a manuscript.
Bibliography	10	Section is missing	References are cited but the proposal	Relevant references are cited in the manuscript, at least 6
(and	10	Section is imissing	does not contain at least 5 research	of which are <i>research</i> articles. References are cited using
references)			articles. Citations do not follow the	the correct parenthetical form (see Notes from class) and
Tereferences)			correct format.	are accurately listed in a Bibliography.
Format and	10	All section headings are missing	The paper follows the correct format,	The paper follows the format of the example proposal,
Organization			but a section heading is missing, or	with all sections (except the abstract and bibliography)
			section headings are not numbered or	numbered from 1-4. All section headings are in bold. A
			bolded.	footer is included that includes your last name, the course
				and section number, and Spring 2016.
Grammar and	10	Many spelling and grammatical	The paper contains a fair number of	The paper is well-written and contains very few, if any,
Style		mistakes seriously detracts from	spelling or grammatical mistakes that	spelling or grammatical mistakes.
		the ability to understand the	detracts from the ability to understand	
		proposal.	the proposal.	