# Project Milestone 4 – Technical Brief Draft

**Instructions**

1. Rename this template file to be Project\_M4\_TechnicalBrief\_*SSS\_TT*.docx.
2. As a team, write the first draft of your technical brief by filling in the sections of the template below.
3. Write your technical brief to President John Watson of NovelEnzymes, Inc.
4. Your technical brief must follow the format shown here. Failure to follow this format will result in lost points.
5. Margins must be set at 1 inch and font must be Calibri 11 point.
6. Your technical brief must be no longer than 2 pages, although graphs and/or tables showing results may be included on a 3rd page.
7. **Delete all red text from this template before submitting**!

**The template starts here:**

To:

From:

RE:

Date:

## Introduction

1. In your own words, describe the problem posed by NovelEnzymes in 2-3 sentences. This should include your team’s consensus on what NovelEnzymes needs in terms of the deliverable, its function (what the deliverable must be able to do), the criteria for success (indicators used to determine performance), and any constraints (what was provided to guide the development of your solution).

<insert your text here>

1. Provide an overarching description of your algorithm in 1-2 sentences. This description should emphasize the key features included in the algorithm. Be specific.

<insert your text here>

1. Summarize three critical decision your team made to improve the accuracy of the parameter identification during the development of your algorithm. For each decision, provide a clear description, evidence-based rationale(s) for decision, and a discussion of how the accuracy of your model was enhanced based on the decision.

## Parameter Identification Procedure

**Describe the steps** of your algorithm in plain clear English. Provide sample calculations and equation-based explanations ONLY for steps that may be more difficult to understand or replicate. Avoid complicated sentence structures and references to MATLAB.

<insert your text here>

## Results

**Present results** of applying the algorithm to the specified datasets clearly and concisely. Each figure and table of results must be discussed in the text (e.g. Figure 1 shows…). Units and decimal places for values presented in figures, tables, and text should be managed appropriately.

<insert your text here>

## Interpretation

In no more than 2 paragraphs, address the two questions of primary interest to NovelEnzymes:

* How can you characterize the error in this process? Please comment on the quality of the experiments themselves, and also on your parameter identification algorithm. Use evidence to support your case, including specific data and results from your analysis and outside references as appropriate.
* What can NovelEnzymes honestly say about their products in terms of their performance, pricing, and manufacturing consistency?

<insert your text here>

## References

If you have any references, list them here in format that you use consistently throughout the document.

<insert your text here>

***All text content above (Parts 1-5) must be on pages 1-2.***

Figure and tables may go on to page 3.

NovelEnzymes requested a particular figure and table (see M4 memo), but you may need to consider additional figures and tables to completely and concisely describe your decisions, results, and interpretation of results. All results should be formatted for technical presentation. Figures and Tables should be numbered in their title (Figure # and Table #). Figure and tables should be referred to in the text by number (e.g. Figure 1 shows… Table 1 shows…). Units and decimal places for values presented in figures and tables must be managed appropriately.

<insert your figures and tables here>

***Template ends here.***