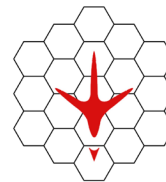




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## **Chemistry Graduate Program Proposal Manuscript and Presentation Guidelines**

These guidelines are adapted from the National Institutes of Health (NIH) research grant application instructions with some minor input from the National Science Foundation (NSF) research grant application instructions (see the link to the instructions on the website).

Both the Thesis Research Proposal and Original Research Proposal are an organized and innovative workplan to feasibly address an important scientific problem by applying fundamental chemical principles and using appropriate instrumentation and techniques. The expected duration of the project is a minimum of two years allotting for additional time where necessary for scientific communication of the project accomplishments.

In the proposal you will:

1. Present and contextualize a scientific problem
  - Explain why the problem is significant.
2. Define your contribution toward tackling the scientific problem
  - Explain what you intend to do.
  - Explain whether your endgoal is to complement or improve on “gold standard” approaches.
3. Establish 3 specific aims
4. Determine short-term and long-term deliverables
  - Intellectual Merit and Broad Impact

## **Proposal Manuscript Format**

Use single space Times New Roman, 12 pt font or Arial, 11 pt font. Make sure to incorporate high resolution figures and tables in the document near the point of mention in the manuscript. The manuscript must be submitted to the committee two weeks prior to the presentation.

1. Title Page (1 page)
2. Table of Contents (1 page)
3. Project Summary/Abstract (0.5 page)
4. Specific Aims (1 page)
5. Research Strategy (12 pages)
6. Timeline (1 page)
7. References/Literature Cited (No page limit)
8. Facilities, Equipment, and Other Resources (No page limit)

For specific guidance on each section and for the use or construction of figures, please refer to the attached pdf document titled “CGP Preparation of the Research Proposal and Presentation.”

## Proposal Presentation Format

The Thesis Research Proposal must be presented only to the members of the thesis committee whereas the Original Research Proposal must be presented during the Chemistry Seminar Series. Prepare your presentation for a duration of 30 minutes.

Section	Suggested Time (minutes)
1. Background and Significance	5 – 10
2. Innovation and briefly introduce all of your specific aims	
3. Approach  Discuss each specific aim. a. Describe the experimental plan (Methodology, analysis) b. Briefly discuss relevant parts of your facilities, equipment, and other resources c. Present preliminary data d. Discuss expected outcomes e. Establish benchmarks for success and alternative plans	20
4. Intellectual Merit	Be brief
5. Broader Impact	
6. Timeline	