# Replace or delete, as appropriate, all red text before submitting

# Date

MEMORANDUM FOR: AFIT/ENG

ATTENTION: MAJ WOOLLEY or MAJ STONE

*Students in the GCS/GCO/GCE programs address their prospectus to Maj Woolley. Those in the GE program address their prospectus to Maj Stone.*

FROM: Rank Fullname (G??-17M)

SUBJECT: Thesis Prospectus: *Your Thesis Title Goes Here in Italics*

1. State concisely the nature/importance of the problem you will work on. Summarize what you intend to do. Characterize the output of your effort – will it be a performance comparison of several systems? A new algorithm? New hardware? A new measurement technique? Recommendations for new/changed policy based on theoretical analysis?

2. Describe how your approach is novel and different than previous research efforts. Where does the other work end and yours begin? If your work directly extends the work of another, indicate the name and author of the previous work.

3. State how you will perform the research. Are you going to run experiments? Execute simulations? Analyze existing data? Develop new theory? Explain what resources are required to complete your work (equipment; software; data; external assistance) and how you will obtain them. Identify how you will measure your progress toward your goals and how you will know if your research is successful.

4. State the nature of the expected results and describe how you plan to document them in your thesis. If you are doing a performance comparison between things, what are the measurements you plan to take and what kinds of graphs/tables will you use? If you are developing new hardware or an algorithm, how do you plan to show it is worthwhile or better than the competition? If you are developing theory, how will you show its correctness?

5. State the potential impact of the expected output or results. Where does your work fit in with other work AFIT is responsible for? Indicate how this research supports the sponsor’s (or your advisor’s) goals or mission and how it supports a broader Air Force mission.

6. Proposed thesis committee:

a. Rank/Title Name, Chair / Thesis advisor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *(signature)*

b. Rank/Title Name, Committee member \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *(signature)*

c. Rank/Title Name, Committee member \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *(signature)*

7. Sponsor: (If no sponsor, put “N/A” here and remove subparagraphs a. through g.)

a. Name: name and rank/grade of POC

b. Title: of sponsor POC

c. Organization: full mailing address

d. Section or Division: in words

e. Office Symbol:

f. Telephone number:

g. E-mail address:

8. Describe the coursework and/or experience that will prepare you to undertake this thesis. Also list any equipment or software you will need to become familiar with and how you plan to accomplish the familiarization (e.g. self study; attend a training workshop; participate in a webinar).

FULLNAME, Rank, SERVICE (*civilians omit rank & service)*

G??-17M

Attachment:

Safety Review Memorandum

*If the proposed thesis is to include experimental work (not simulation) that involves hazardous materials or specialty training (lasers), attach a memorandum for record identifying the safety risks and the steps that will be undertaken to mitigate these risks.*

1st Ind, AFIT/ENG

MEMORANDUM FOR AFIT/ENG

I approve/disapprove the above thesis prospectus and thesis committee. This prospectus will be maintained in the student’s file. The thesis should be prepared in accordance with the AFIT Thesis Guide. Good luck!

BRIAN WOOLLEY, Maj, USAF

Chief, Computer Science Division

Department of Electrical and Computer Engineering

SAMUEL STONE, Maj, USAF

Chief, Electrical Engineering Division

Department of Electrical and Computer Engineering