

1

An Amazing Proposal Title

2

AMAZING STUDENT

Department of Physics and Astronomy, College of Charleston, Charleston SC

3

AWESOME MENTOR (MENTOR)

Department of Physics and Astronomy, College of Charleston, Charleston, SC

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ABSTRACT

5 Here you say – briefly! – what you plan to do and how you plan to do it. What are your
6 anticipated outcomes?

7 **1. Introduction**

8 This is a reasonable template to use for your proposal. You have presumably done some
9 scientific writing before, but this document will probably be a bit different than things you
10 have written in the past.

11 For this whole document, you should view your audience as one of your professors. In
12 short, someone who knows plenty of Physics, but may or may not be an expert in the
13 particular area you are proposing to do work in. If you use jargon or acronyms, you should
14 clearly define and explain them on their first occurrence.

15 The introduction section should give some background/context and – depending on the
16 project – possibly some motivation as well. Bring the reader up to speed on the big-picture
17 here. Remember, the reviewers may not be overly familiar with your field.

18 This section should have some (appropriate) references. No factual claim should be made
19 without either evidence or a citation (though keep it in reason. I think we're all on board
20 with $\vec{F} = \dot{\vec{p}}$). If it is at all possibly surprising to the reader, you should cite it. When
21 in doubt, have a citation. The specific format for referencing can vary from subdiscipline
22 to subdiscipline and from journal to journal. Here, the most important thing is that you
23 are self-consistent. For example, the pair-correlation function is a scale-localized measure of
24 deviations from perfect randomness (see, e.g., Larsen (2012).)

25 **2. Goals**

26 What do you expect to accomplish? What will the product of your work be? Might it
27 ultimately result in a publication? This is generally big-picture stuff.

28 **3. Method**

29 How will you accomplish your goals? What approach will you use? What things will you
30 need to make it happen? What will you measure? How will you measure it? How will you
31 analyze your data? What will the analysis allow you to conclude?

32 This section serves a couple purposes. (1) it ensures the reviewer that you have a plan,
33 that your plan is reasonable, and that your plan makes sense. (2) it allows the reviewer to
34 get a handle on the nature of the work you're going to have to tackle so they can assess your
35 ability to actually complete the proposed task. (3) it forces you to think your way all the
36 way through the project so you have a big-picture idea of what's going on.

37 Some sort of figure/graphic in this section is strongly encouraged, especially if it helps
38 you get your ideas across more clearly or succinctly.

39 **4. Resources**

40 What facilities, supplies, space, computers, programs, expertise (etc) will you need? If
41 the resources you need are already in place, then the reviewer needs to know that. The
42 reviewer needs to know that you know what resources you need and that you have a plan to
43 procure/acquire them if they are not already available.

44 **5. Budget**

45 Not everyone will need this section, but if you are asking for any money to do anything,
46 make sure you include a detailed budgetary breakdown. If you need to buy/acquire some-
47 thing, you need to do your homework! You should know what it costs, and how you're going
48 to get the money to do it. In particular, if you need money from the department to complete
49 your work, you should talk with your instructor to see if it is plausible. Some narrative may
50 be appropriate here, as may a table/list.

51 **6. Timeline**

52 Reviewers LOVE timelines. When do you plan on executing specific aspects of the
53 project? Include things such as presentations at meetings, target dates for report completion,
54 milestones in accomplishing particular steps outlined in the method section, etc. This cries
55 out for a table of some sort. It is hard to do science on a particular timetable – we know that
56 – we also know that this probably won't exactly match what will actually happen. Again,
57 this is more about developing a specific plan than actually staying with it.

APPENDIX

58

59

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Appendix (If Necessary)

61

If you have any materials that should go in an appendix, then put them here.

REFERENCES

- 64 Larsen, M. L., 2012: Scale localization of cloud particle clustering statistics. *Journal of the*
65 *Atmospheric Sciences*, **69**, 3277–3289.

66 **List of Tables**

67 1 This is a sample table caption and table layout. Enter as many tables as
68 necessary at the end of your manuscript. 8

TABLE 1. This is a sample table caption and table layout. Enter as many tables as necessary at the end of your manuscript.

<i>N</i>	<i>X</i>	<i>Y</i>	<i>Z</i>
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0020	0030	0066	0007
0025	0054	0115	0024

⁶⁹ **List of Figures**

⁷⁰ 1 Enter the caption for your figure here. Repeat as necessary for each of your
⁷¹ figures. 10

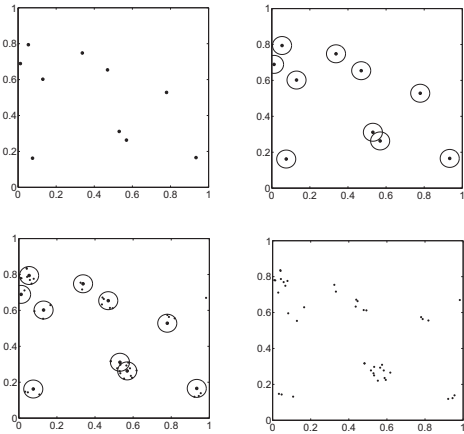


FIG. 1. Enter the caption for your figure here. Repeat as necessary for each of your figures.