

Guide to using NSFmaster template

NSFmaster.tex is the "master" latex file for compiling the proposal. Each of the five required sections (Project Summary, Project Description, References Cited, Biographical Sketch, Data Management Plan) has its own separate latex file (NSFsumm.tex, NSFdesc.tex, NSFrefs.tex, NSFbio.tex, NSFdata.tex). These "section" files are called by the master file. The Collaborators & Other Affiliations Information should be done in the provided excel template and done as a Single Copy Document, so it not part of the master file.

Template (6 files)

NSFmaster.tex	= MASTER file	(compiles the 5 sections)
NSFsumm.tex	= Project Summary	(section 1)
NSFdesc.tex	= Project Description	(section 2)
NSFrefs.tex	= References Cited	(section 3)
NSFbio.tex	= Biographical Sketch	(section 4)
NSFdata.tex	=Data Management Plan	(section 5)

Composing the proposal in latex

By default NSFmaster.tex compiles all 5 section files so that you can work on the proposal as a whole. The NSFmaster.tex file doesn't need to change much, but it is where you put your own latex macros. Add those macros underneath the comment %PUT YOUR MACROS HERE (or if you keep them in a separate style file, add the line \usepackage{yourstylefile} there instead). The content of your proposal will go in the 5 section files. Just compose each section (in latex) in its appropriate section file. Then compile the proposal by latexing NSFmaster.tex:

```
latex NSFmaster.tex → NSFmaster.dvi (1)
```

DO NOT USE \documentclass or \begin{document} or \end{document} in the section files!!!!
(This would produce irrecoverable errors when latexing NSFmaster.tex.)

Generating four separate .ps files (one for each section)

When you are done writing the proposal, you will need to generate one postscript file for each of the 5 required sections. The template makes this easy.

Above the \begin{document} in NSFmaster.tex is the command \includeonly{NSFsumm} (you will have to uncomment it by removing the % to make it work). This tells latex to process *only* the section within curly braces, in this case the Project Summary. Process NSFmaster.tex in latex (1) to get the dvi file NSFmaster.dvi. **Rename this file when you convert to .ps** to reflect which part you processed. In this case you'd use

```
dvips -Ppdf -t letter NSFmaster.dvi -o NSFsumm.ps (2)
```

IMPORTANT!!! Consult NSF Fastlane guide to using TeX/LaTeX for questions or further information (see link https://www.fastlane.nsf.gov/documents/pdf_create/pdfcreate_05h.jsp). In the past, NSF requires those two processing options (highlighted in red above) when using dvips to do the conversion.

Here's a table to help keep track of this renaming process:

If you latexed with...	convert to postscript with...
\includeonly{NSFsumm}	dvips -Ppdf -t letter NSFmaster.dvi -o NSFsumm.ps
\includeonly{NSFdesc}	dvips -Ppdf -t letter NSFmaster.dvi -o NSFdesc.ps
\includeonly{NSFrefs}	dvips -Ppdf -t letter NSFmaster.dvi -o NSFrefs.ps
\includeonly{NSFbio}	dvips -Ppdf -t letter NSFmaster.dvi -o NSFbio.ps
\includeonly{NSFdata}	dvips -Ppdf -t letter NSFmaster.dvi -o NSFdata.ps