Writing Your Graduate School Application Essay

Although different graduate schools may ask you to answer different prompts, most ask that you write no more than a two-page application essay. The application essay is difficult to write because you must pitch your candidacy to a few department faculty members who read through hundreds – or sometimes thousands – of other essays. In this handout, you will learn how to show these busy readers that you will contribute meaningfully to the university and their department.

The application essay is often called a statement of purpose (SOP) or a personal statement. Refer to FAQs to find out how the two are different, but both types are similar in one key way: you must convince the admissions committee that you are a good fit for the program and can contribute to the department.

1. Relate your past and present experiences to the future.

In their application essays, many applicants make the mistake of underemphasizing the future. But it's important that you show how your past experiences have informed your present work, and how your present work can be extended to the future or raise new research questions.

Admissions committees assess many qualified applicants based on whether their research will reflect positively on the university and their department. Committees will think your past and present work is relevant only if it relates directly to your plans for the future. If you don't know exactly where your current work will take you, you should at least mention how you could develop it. Committees want to see that you have a sense of direction and motivation to pursue issues specific to your field.

Note: Your application essay is not a binding contract, and you don’t have to list your qualifications in chronological order like a résumé or CV. It may be better to order them according to importance.

BEFORE

I am an ideal candidate due to the knowledge I have gained thus far in my Master's program at Carnegie Mellon University. I have completed courses in multiple fields of chemical engineering, as well as increased my knowledge in engineering techniques and lab research. I further honed these techniques from participating in a lab research project. My first lab experience started when I joined Professor Annette Jacobson's team to determine the electrophoretic mobility of colloidal contaminants in water, which is useful in water treatment processing. Moreover, I have acquired scientific research skills, for instance, searching literature, designing experiments, analyzing results and writing papers.

Doesn’t show how qualifications will benefit applicant in the future

Doesn’t explain how past experiences are relevant to graduate level work
AFTER

My Master's from Carnegie Mellon University in Chemical Engineering has equipped me
with content knowledge and technical experience on colloidal properties that will be a
strong asset to the work on soft matter phenomena currently being conducted at Yale
University's department of Chemical and Environmental Engineering. I've focused the
majority of my studies on both supramolecular engineering of colloidal forces and
aggregation dynamics, and electrophoretic deposition of colloidal crystalline arrays for
display technologies. These foci were further honed when I joined Professor Annette
Jacobson's team to determine the electrophoretic mobility of colloidal contaminants in
water, which is useful in water treatment processing. I plan to extend my research pursuits
to intrinsic and extrinsic microstructural relaxation rates in protein separation and
crystallization processes, work currently being explored by Professor Michael Lowenberg,
and my work on colloidal properties will give me a valuable perspective into that
investigation.

2. Elaborate on your qualifications.

Faculty members who read your application essay are experts in your field. They want to read about
your specialized work so they can decide if your skills and research will benefit their department. Don’t
be vague about your work hoping to reach a wider audience. On the other hand, you shouldn’t over-
load your application essay with jargon just to impress the committee. Use only the jargon you need to
tell a specific story about your research.

Emphasize the qualifications you have gained from your experiences; don’t just list the experiences
themselves. Do not just restate your résumé, but elaborate on the qualifications that you have gained
through your accomplishments, giving concrete examples. Remember the axiom: show; don’t tell.

BEFORE

I believe my knowledge base, skills and motivation for research make me a great
contribution to Carnegie Mellon’s electrical and computer engineering research group.
I’m passionate and enthusiastic about ECE techniques and also have a strong background
in foundations of engineering, due to my comprehensive undergraduate work, and I’m
versed in research methodologies, as shown through my multiple collaborative projects.

AFTER

I am an ideal candidate for Carnegie Mellon University’s Electrical and Computer
engineering program due to my extensive research on radio transmitter
identification techniques that can identify multiple transmitters and weak interference
sources, independent of the DTV reception. More specifically, my current collaborative
publication with Professor Qijun Wu of Xidian University proposes a timely new
transmitter fingerprinting technique that reduces multipath distortion generated
by neighboring transmitters in an SFN, which would enable broadcast authorities and
operators to identify the source of in-band interference in some coverage overlapped
areas. I believe my expertise at this area could supplement the cutting-edge TxID work
being conducted at Carnegie Mellon.
3. **Specifically explain why this institution is the best fit for you.**

You must show how your research interests match the department's academic strengths. Visit the department's website to see what research they emphasize and what faculty are working on.

In your application essay, identify 2-3 faculty members and relate their work to your future research goals. If you discuss how your intended work aligns with the department's work, you will convince the committee that you’re interested, well informed and detail-oriented. Committees can sense if you use the same statement for every school; you must tailor your essays to specific programs.

**BEFORE**

My visit to Carnegie Mellon University and my correspondence with several faculty members has further strengthened my will to join CMU's chemical engineering department. I believe that your leading faculty and rigorous training is a good match for my research interests, and will aid me in pursuing an academic career in a top Process Systems Engineering program.

**AFTER**

Carnegie Mellon University is the ideal institution to support my academic pursuits since the Process Systems Engineering group’s focus on optimization dovetails perfectly with my research interests. I believe I would be a valuable asset to the PSE team’s endeavors to solve design and operation problems in process industries, specifically with my research focus in integrated process water systems. In particular, the techniques of Professor Ignacio E. Grossmann on mixed-integer nonlinear programming for the synthesis of integrated process water networks are foundational to my current work. In addition, the work of Professor Nikolaoz V. Sahinidis on global optimization is very intriguing to me as a path for future research, as I’ve communicated to him in our correspondence. I would greatly appreciate the opportunity to learn from and collaborate with CMU’s influential faculty and the Center for Advanced Process Decision-making.

4. **Introduce the main idea for each body paragraph in the topic sentence.**

Communication research suggests that readers best comprehend and retain information when you unify a paragraph around one main idea that is clearly signaled in the topic sentence. Try to organize each body paragraph in your application essay around one qualification or ability.

**BEFORE**

CMU’s program emphasizes real world data analysis and the practical application of statistical knowledge in the workplace. I have taken classes in linear and hierarchical regression analysis, including multilevel models, and data visualization. Currently I am working on a consulting project, finding software solutions for a variety of clients. I have also completed four actuarial exams – P, MLC, FM and C.

**AFTER**

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Data analysts at Google have the added opportunity and challenge of recommending solutions for the data problems they encounter. I am prepared for the distinct problem-solving facet of this position because I received unique training from CMU’s Statistics program, where I practiced applying statistical knowledge in the workplace. I have acquired the communication skills necessary to present solutions to Product Managers, Sales Associates, Engineers, and Marketing Teams through my coursework and current project of working with a variety of clients to find data-driven solutions. In addition to reporting solutions, I have completed four actuarial exams – P, MLC, FM, and C – and acquired the problem-solving skills to analyze and interpret large data sets through my experience in hierarchical regression analysis of multilevel models.

5. Utilize white space.

You should provide ample white space (parts of the page left without text) in your application essay with at least 1" margins, short paragraphs and readable type (at least 12 pt). Employers and recruiters who read hundreds of application essays do not want to read documents that look crowded or lengthy. Respect your readers’ position and provide a visually inviting document.

At a glance, which application essay do you find more inviting?
Graduate School Application Essay FAQs

Application essays are also difficult to write since there’s a lack of consensus about the best practices of the genre. There isn’t one correct way to write application essays because you can make yourself stand out in many different ways. These FAQs highlight some of the differing approaches.

Note: Talk to an advisor in your field to see which approach is better for your discipline.

What’s the difference between a statement of purpose and a personal statement?

Sources haven’t reached a consensus on the difference between personal statements and statements of purpose. Some say that personal statements should explain your personal history and past experiences more, while statements of purpose should be more future-oriented, with special language about future work. Others say that personal statements should be more engaging, autobiographical and anecdotal, while statements of purpose should be more direct and to-the-point about your academic work. Often, the institution you’re applying to can offer advice about how to write and what to include in your application essay, even if instructions are not in the main prompt.

Should my tone be personal or strictly professional?

You can assume many tones when writing your application essay, ranging from engaging, anecdotal, and entertaining to objective, direct, and concise. Here’s a good guideline: don’t be too extreme with any tone you assume. Check with the institution you’re applying to or an advisor to see which approach is better for your field.

Should I begin my statement with an anecdote or personal hook?

Some sources recommend starting your application essay with a personal hook – a relevant, personal anecdote or experience that will make you stand out from other applicants. (Medical schools often like to see personal hooks). Other sources recommend focusing your application essay on your research and academic goals, without any fluff. Talk to an advisor to see which approach is better for your field, but no matter your approach, be sure to connect your introduction to your future plans.

- **Personal hook introduction:** When I was 17 years old, I was scuba diving off the coast of Australia and had my right leg, below the knee, bitten off by a Great White shark. While this experience was incredibly difficult, the prosthetic leg I received enabled me to live a “normal” life. I could maintain a similarly active lifestyle engaging in activities like running, skiing, skateboarding, and even scuba diving. My accident was the event that incited my entry to the field of biomedical engineering, with a focus on orthotics and prosthetics.

- **Direct introduction:** I’m applying to the biomedical engineering program at M.I.T. with a concentration in orthotics and prosthetics. I believe my extensive work with ankle stabilizing mechanisms, along with my firsthand experience of living with a prosthetic leg, makes me the ideal candidate for your doctorate program.

Should I account for things like a drop in my GPA, poor SAT/GRE scores, or lapses in my work or education history?

Don’t lie, but don’t ignore any unusual or potentially negative experiences hoping that the committee won’t notice. You don’t need to make excuses – especially if you don’t have a good one – but you should note if your grades dropped because you were caring for a sick family member, or if you took time off from school to work in an unrelated industry. However, why you let your grades slip or took time off is often less important than what you did to remedy your situation. If you had a rough semester, what did you do to get yourself back on track? If you were working as a chef, what made you decide to pursue a Ph.D. in engineering? More importantly, what did you learn from those experiences that will benefit you in graduate school? These experiences may not directly affect what you’ll research in graduate school, but they demonstrate your commitment to pursuing an advanced degree.