2012 NSF GRFP Applicant: XXXXXXXX XXXX   Applicant ID: XXXXXXXXXX

Scores for XXXXXXX, XXXXXXXXX
<u>Reviewer 1</u>
Intellectual Merit Criterion
Overall Assessment of Intellectual Merit: Very Good

Explanation to Applicant: The applicant has had a broad range of both industrial and research experience as an undergraduate. While the proposed plan is fairly well described it is not very clear what role the applicant played in developing the research program. The applicant does appear to be making good progress in her work and gave a presentation at the annual AIChE meeting.

Broader Impacts Criterion
Overall Assessment of Broader Impacts: Very Good
Explanation to Applicant: From the supporting letters it is clear that the applicant is involved in a myriad of outreach activities though on campus organizations. The proposed work will also have significant societal impact if successful.

<u>Reviewer 2</u>
Intellectual Merit Criterion
Overall Assessment of Intellectual Merit: Good

Explanation to Applicant: The applicant brings a diverse perspective to the proposed research having spent nearly five years in industry. Several posters presentations have been made regarding on-going research. The applicant took the initiative to conduct an independent research study prior to the completion of qualifying exams during the first year of graduate study. The proposed research abnormal protein folding associated with brain disorders. The research plan is a good fit with the academic institution but it is unclear how much the research proposed by the applicant differs from the research currently funded by the advisers' NSF grant. The application would have been strengthened by a few statements attesting to how the proposed research differs, yet complements already funded research in the lab. The applicant has shown to be improving in terms of academic record and the reviewer is very appreciative of that upward trajectory.

Broader Impacts Criterion
Overall Assessment of Broader Impacts: Very Good

Explanation to Applicant: The applicant is currently establishing herself as a leader within the graduate student community, working to propose improvements in the program, serving as a new graduate student coordinator and is on the student board for a fellowship program dedicated to increase underrepresented groups in STEM disciplines. Additionally the applicant is vice president of the departmental student council. The applicant is a peer mentor for promise a graduate career development program. The applicant is involved with a pre-college initiative to broaden participation in STEM and is active in NSBE as well as tutors math for local area students.

<u>Reviewer 3</u>
Intellectual Merit Criterion
Overall Assessment of Intellectual Merit: Very Good

Explanation to Applicant: Mediocre UG academic record improved with time, as did graduate record after returning from employment. Career aspirations clear, based on extensive industrial experience with apparent successes. Limited prior academic research experience. Proposal clear with solid basis, hypothesis, and design plus methodology. References indicate high quality in problem solving, initiative, and accomplishment.

Broader Impacts Criterion
Overall Assessment of Broader Impacts: Excellent

Explanation to Applicant: Good academic, educational, or organizational experiences for outreach and societal impact. Personal qualities and background suggest future personal impacts, which is amplified by references. Research impact could be of great significance for neurologic diseases, though may be only one step in many.