

Score for Aull, Katherine

Intellectual Merit Criterion

Overall Assessment of Intellectual Merit

Very Good

Explanation to Applicant

The candidate has several short term undergraduate and professional research experiences that span intellectually broad topics. The candidate clearly is able to problem-solve extremely well, utilizing her background very effectively. The candidate broadens scientific outreach via her publication and numerous talks. The research plan provides defined hypotheses and research plan for evolution of a novel synthetic counter.

Broader Impacts Criterion

Overall Assessment of Broader Impacts

Excellent

Explanation to Applicant

The candidate's DIYbio work indicates commitment to scientific outreach and communication with high impact along with teaching on campus with significant curriculum/software development. The candidate has integrated outreach in the research plan showing extensive and sustained interest in educating others about science.

Score for Aull, Katherine

Intellectual Merit Criterion

Overall Assessment of Intellectual Merit

Excellent

Explanation to Applicant

The applicant has exceptionally good background both academically and from a research perspective. Her references are highly supportive of her research potential and independence. With her DIY project, she has shown that she is capable of being leader in science. The research plan although logical, sound and strong could be a bit too ambitious.

Broader Impacts Criterion

Overall Assessment of Broader Impacts

Excellent

Explanation to Applicant

The applicant has proven that she could seriously think about the broader impacts issues and to actually put them in to practice. Her research plan does seem to have potential for improvement to society although not in the near future. She has demonstrated her contribution to broader participation of women in science.

Score for Aull, Katherine

Intellectual Merit Criterion

Overall Assessment of Intellectual Merit

Excellent

Explanation to Applicant

Through the description of previous research experience, the applicant demonstrates a high level of understanding for conducting hypothesis driven research and has taken advantage of a good number of experiential opportunities. In the applicants description of these opportunities it is evident that the applicant understood not only the protocol being performed but also the research design leading to why the techniques were being applied as well as the overall goals of the research.

Broader Impacts Criterion

Overall Assessment of Broader Impacts

Excellent

Explanation to Applicant

The applicant relates experiential demonstration and consideration of broader impact that suggest the potential for conducting broader impact activities. The applicant also indicates the application of tool / resource development as a component of broader impact in his planned research. Furthermore the applicant indicates a directed specific aim to provide outreach educational opportunities directly related with the proposed research. This is highly commendable.