

WVU GENOMIC DATA ANALYSIS – PROPOSAL REVIEW

Proposal Review

Your proposal will be reviewed by your peers (class members who are not part of your team) and instructor(s), and scored according to a modified version of the general NIH guidelines for research applications. The following 5 criteria will be used to assess the impact of your proposal, so **you should address these in your application**:

- 1. Significance.** Does the proposal clearly state the important problem or critical barrier to progress addressed by the project? If the aims of the proposal are achieved, does the proposal clearly state how scientific knowledge, technical capability, and/or clinical practice will be improved?
- 2. Investigators.** Do the approach and methods align well with the investigator's abilities? If they propose significant coding, do they have the appropriate background to complete it in a timely fashion?
- 3. Innovation.** Does the application clearly identify any novel theoretical concepts, approaches, or methodologies in the data or methods? Are the concepts, approaches, or methodologies novel to one field of research, or novel in a broad sense? Is a refinement, improvement, or new application of theoretical concepts, approaches, or methodologies clearly identified?
- 4. Approach.** Are the overall strategy, methodology, and analyses well-reasoned and appropriate to accomplish the specific aims of the project? Have the investigators presented strategies to ensure a robust and unbiased approach, as appropriate for the work proposed? Are potential problems, alternative strategies, and benchmarks for success presented?
- 5. Environment.** Are the institutional support, equipment, and other physical resources available to the investigators adequate for the project proposed? Has the proposal clearly identified the tools required?

Each reviewer will assign a score from 1 (exceptional) to 9 (poor) for each of the criteria above. These scores are due before the **Review of Proposals** date for the project. They will be discussed during the review session, and each reviewer will subsequently assign a **final impact score**. The mean of all final impact scores will be calculated and multiplied by 10 to generate a **final overall impact score** between 10 (exceptional) and 90 (poor).

Your grade for the proposal section (35%) will be calculated from the final overall impact score for your application. Your grade for the peer review section (15%) will be based on your participation, attendance at the review session, and submission of scores in a timely fashion.