

AI CIRCLS Mock Review Panels Synthesis Themes:

1) Strategies for writing a successful proposal.

- Address gaps in the literature
- Describe how the proposal aligns with the NSF call
- Provide specific details on the research methods and data management plan metrics and proposed activities for how the research team will evaluate success
- Include preliminary data to support the hypothesis
- State explicitly how the research team is ensuring trustworthiness, content validity, and reliability
- Define all technical terms using simple language
- Provide a detailed link between the proposed project as an intellectual exercise and the larger societal impact

2) Strategies for tailoring proposals to interdisciplinary program panels.

It is important to fill in “gaps” that might arise when a reviewer is from a different discipline which may influence the initial ranking until further panelist discussion or debate occurs across disciplines). It is also important to anticipate navigating issues of differing values or biases (including understanding what happens with split panels).

3) Pitfalls to avoid in the development of a grant proposal.

These might include:

- Unclear management plan
- Insufficient literature review such as not having enough supporting citations for claims or not establishing a gap in the literature
- Superficial use of theory
- Not having enough or appropriate expertise on the research team;
- Not considering ethical issues
- Not thoroughly discussing DEI
- Misalignment with research question, activities, and/or methods
- Ambiguity in language and/or process
- Not enough details on concrete methods and approaches
- Scalability/trying to do too much within the scope of a project

4) Examining how we define innovation in the field. Innovation is sparked through cultivating interdisciplinary relationships, breaking professional silos, and collaborating on research endeavors. We discussed what innovation means in the design of the emerging educational technology, and how innovation manifests the emerging educational technology itself and its function. We discussed cases where innovation lies in the application of the emerging educational technology in a specific context, and how the emerging educational technology

might address equity issues and transform traditional narratives in education or society in general.