Assessment Criteria for HAC Inductive Research Grants

- Review of Literature / Relevant Background: Complete, relevant, and accurate literature review. Clearly describes how the proposed research is grounded in past work. Justification of the intellectual merit of the proposed research. A list of all relevant references cited in the application and, if it is useful, a complete bibliography. The references section is not part of the Program Statement and is not included in the five-page limit.

- Significance to the Field, Significance to the Author, & Future Implications: Need for the project in the current field of study, significance of the project for current and future studies. How the project can contribute to faculty research, as well as to the field at large. How the project will complement the author's program of research.

- Broader/Butler Impact: Description of how the proposal will enhance the infrastructure for research and education at Butler, such as facilities, instrumentation, networks, partnerships, or outside funding and/or how the proposal will promote teaching, student learning, new course development, or new concept development.

- Objectives: Objectives of the project; expected outcomes. Clear statement of the research hypothesis or goal of the project. Must explain how the data being collected is building a case for new methodology or processes.

- Methodology (Processes, Measures, Analysis): Processes applicants will use to achieve objectives including how data will be collected, used, and analyzed.

- Timeline: Anticipated timeline for the proposed project. Should detail how the work will be completed over the grant period.

- Reporting: How the will results be disseminated to enhance scientific and technological understanding.

- External Funding (if applicable): How research completed through this grant will create opportunities for future external funding.

- Progress since last grant (if applicable): Describe progress on previous internal funding.

- Budget and Budget Justification: Itemized budget; justification of expenses.
    - **Must-Fund (Core):** Costs without which the specific aims cannot be achieved (e.g., specialized reagents, essential lab tech hours, basic sequencing).
    - **Should-Fund (High Priority):** Items that significantly verify data or reduce error margins, but have alternative workarounds (e.g., technical replicates sent to an outside core facility).
    - **Could-Fund (Nice-to-Have):** Items that allow for broader exploration or faster data collection but aren't tied to the primary hypothesis (e.g., automated liquid handlers, high-end visualization software).

  Additional considerations may include: 1) first time applicant, 2) direct costs such as funds needed for equipment, travel, and supplies, 3) pre-tenure/promotion, and 4) history of meeting objectives if previously funded.

Assessment Criteria for HAC Deductive Research Grants

- Review of Literature / Relevant Background / Novelty of Research: Complete, relevant, and accurate literature review. Clearly describes how the proposed research is grounded in past work. Justification of the intellectual merit of the proposed research. Clearly articulates how the current research is novel in relation to published literature. A list of all relevant references cited in the application and, if it is useful, a complete bibliography. The references section is not part of the Program Statement and is not included in the five-page limit.

- Significance to the Field, Significance to the Author, Broader Societal Significance & Future Implications: Need for the project in the current field of study, significance of the project for current and future studies. How the project can contribute to faculty research, as well as to the field at large. How the project will complement the author's program of research. When applicable, the broader societal significance of the research should be discussed and potential applications of the proposed research. If not applicable, the author should briefly justify why no broader societal significance is applicable to the proposed study.

- Broader/Butler Impact: Description of how the proposal will enhance the infrastructure for research and education at Butler, such as facilities, instrumentation, networks, partnerships, or outside funding and/or how the proposal will promote teaching, student learning, new course development, or new concept development.

- Deductive Problem Statement: Should explicitly define the problem being addressed by the work and the feasibility of addressing the problem. Feasibility can include motivating examples, general strategies, partial results, and prior success. Must have hypotheses explicitly stated and describe how testing and data will help determine "success."

- Timeline: Anticipated timeline for the proposed project. Should detail how the work will be completed over the grant period.

- Reporting: How the will results be disseminated to enhance scientific and technological understanding.

- External Funding (if applicable): How research completed through this grant will create opportunities for future external funding.

- Progress since last grant (if applicable): Describe progress on previous internal funding.

- Budget and Budget Justification: Itemized budget; justification of expenses.
    - **Must-Fund (Core):** Costs without which the specific aims cannot be achieved (e.g., specialized reagents, essential lab tech hours, basic sequencing).
    - **Should-Fund (High Priority):** Items that significantly verify data or reduce error margins, but have alternative workarounds (e.g., technical replicates sent to an outside core facility).
    - **Could-Fund (Nice-to-Have):** Items that allow for broader exploration or faster data collection but aren't tied to the primary hypothesis (e.g., automated liquid handlers, high-end visualization software).

  Additional considerations may include: 1) first time applicant, 2) direct costs such as funds needed for equipment, travel, and supplies, 3) pre-tenure/promotion, and 4) history of meeting objectives if previously funded.