

Guidelines for Submitting an Abstract for the Senior Design Poster Session

NEBEC 2026 invites abstract submissions from undergraduate bioengineering student teams completing senior capstone design projects. Submissions are welcome from teams enrolled in either **one-semester or two-semester capstone design courses**. Projects may be at any stage of development, from early concept generation to advanced prototyping and validation.

Eligibility

- Submissions must represent work conducted as part of an accredited undergraduate bioengineering senior design course.
- Team-authored abstracts are expected.
- Faculty advisors should be listed as co-authors where appropriate.
- To be considered for a prize, all team members must be enrolled undergraduate students

Abstract Content

Abstracts should be structured to clearly communicate the engineering design process and project intent. Final results are **not required**.

Authors should include the following elements:

1. **Problem Statement and Need**
Clearly describe the unmet clinical, research, industrial, or societal need being addressed. Identify relevant stakeholders or end users.
2. **Background and Motivation**
Provide brief background context and summarize limitations of existing solutions that motivate the proposed design.
3. **Design Objectives and Requirements**
State the primary design goals and key engineering requirements (e.g., performance, safety, usability, cost, regulatory constraints). Requirements should be tied to user needs where possible.
4. **Design Approach**
Describe the proposed system, device, process, or methodology. This may include conceptual design, system architecture, modeling strategies, materials selection, biological considerations, or experimental plans.
5. **Project Status and Preliminary Progress**
Indicate the current stage of the project (e.g., needs assessment, concept development, prototyping, testing). Include preliminary results if available, or planned validation steps if the project is ongoing.
6. **Ethical, Regulatory, and Societal Considerations**
Briefly address relevant ethical issues, regulatory pathways, sustainability concerns, accessibility, or broader societal impacts of the design.
7. **Anticipated Impact and Future Work**
Conclude with the expected impact of the project and remaining work within the capstone timeline.

For questions about submissions to the Senior Design Poster Competition, contact yahel@temple.edu.