



PennState

CENTER FOR
BIODEVICES

REQUEST FOR APPLICATIONS
Center for Biodevices Innovation Grants

Released September 29, 2023

Application Receipt Date: Noon, November 1, 2023

Overview:

Applications are sought for the Center for Biodevices (CfB) Innovation Grant Program to support design and prototyping through mentorship of undergraduate capstone design teams. Applications should focus on proof-of-concept prototyping for advancing biodevice technologies and/or translating research to existing and start-up companies.

Eligibility Criteria: Applications may be submitted by any Penn State faculty member/clinician working in the area of biodevices.

Program Guidelines:

1. CfB Innovation grant applications should include a description of the project goals and the commercial potential, if applicable. Projects must be aimed at design and proof-of-concept prototyping for advancing biodevice technologies and/or translating research to existing and start-up companies. For projects with commercial potential, applicants are not expected to have a detailed business plan at this stage; however, the application should demonstrate an understanding of issues related to commercial relevancy.
2. Innovation projects will be implemented through the Penn State Learning Factory's capstone design program (<https://www.lf.psu.edu/>) at the University Park campus. PIs will serve as the project sponsor/mentor for a team of ~4 undergraduate engineering students for the Spring 2024 semester; therefore, the goals of the project must be achievable by a student team in one semester. The PI must be actively involved in mentoring and guiding the student team and comply with all requirements and deadlines for project sponsors set by the Learning Factory.
3. The award supports one engineering student project team to work on the proposed project for one semester. The student team is provided a budget of \$1,250 to spend on prototyping, supplies, and travel.

Questions: Please contact Dr. Jason Moore at jzm14@psu.edu with any questions about the CfB Innovation Grants including appropriate scoping of the project for this opportunity.



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Instructions for Applicants

Prepare the application as a **single PDF file** (single space, 11 pt Arial, with 1" margins). The final PDF file should include all of the information listed below in the order indicated:

1. **Cover page:** Please use the attached cover page template.
2. **Table of Contents:** Include page numbers starting with the cover page and numbering all pages consecutively.
3. **Project Title (500 characters maximum)**
4. **Project Objective (single sentence of 140 characters or less)**
5. **Project Description (1 page maximum) including overview and deliverables**
6. **Commercial potential, if applicable (optional, 1 page maximum)**
7. **Up to 3 images to illustrate the project goals and potential**
8. **References (optional, 1 page maximum)**
9. **Biosketches:** Include a current NIH or NSF biosketch for the PI and any other key personnel.

Note that a SIMS budget is not needed for this program as the amount is fixed and funds will be transferred directly to the Learning Factory for the project.

Submission: Submit the application as a **single PDF file** to Debbie Mottin at daj122@psu.edu on or before **noon November 1, 2023**.

Review, Selection and Award:

Applications will undergo a review by the Center for Biodevices review committee that will consider the responsiveness of the application to this RFA, including the scientific and technical merit, and the potential to serve as an appropriate project for a team of undergraduate capstone design students.

Contingent upon the receipt of meritorious applications, up to five awards will be announced on or about November 18, 2023 in response to this RFA. The anticipated start date for these awards is January 8, 2024. Awardees are encouraged to interact with representatives from Penn State's Center for Medical Innovation (<https://research.med.psu.edu/departments/medical-innovation/>) in order to assist with potential technology commercialization.

In addition, PIs will be expected to serve as a member of the joint College of Medicine/College of Engineering Collaborative Research Review Committee in future years, upon request.



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COVER PAGE

Center for Biodevices Innovation Grant Application

Project Title: _____

PI Information:

Name and Degree: _____

Title and Department: _____

E-mail: _____ Phone: _____

List all other investigators or collaborators including name and degree, title and department, and email:

Are **animals or animal-derived tissues** being used in this study? Yes No

If yes, has the protocol been approved by the IACUC? Yes No

If yes, provide approval date: _____

IACUC Protocol#: _____

Are **human subjects, human-specimens or human data** part of this study? Yes No

If yes, has the protocol been approved by the IRB? Yes No Determined to be Exempt

If yes, provide approval date: _____

IRB Protocol#: _____

Are **Recombinant DNA Techniques/Biohazards** used in this study? Yes No

If yes, has the protocol been approved by the Biological Safety and Recombinant DNA Committee?

Yes No

If yes, provide approval date: _____

rDNA Protocol#: _____

Are **core facilities** being used in this study? Yes No

If yes, provide details: