

**The ASPB Plant Biology Learning Objectives, Outreach Materials & Education (BLOOME)
Grant 2024
Complete REQUEST FOR PROPOSAL (RFP)**

The purpose of this RFP is to fund the development of curricular materials (activities and labs) to support teaching the new Principles for Teaching Plant Biology in K-12 and undergraduate classrooms.

- The Project Leader/PI must be a current ASPB member or agrees to [join ASPB](#) if their project is funded. The cost of membership for the Project Leader **may** be included in the budget. For more information on dues, please visit <https://aspb.org/membership/membership-dues/>. Reduced rates are available for K-12 and community college educators.
- Maximum request: \$8,500 for one year to fund the development of classroom activities and labs. Up to 9 projects will be fully funded.
- Successful proposals will describe the creation and dissemination of classroom activity modules to use in K-12 classrooms. Proposals for first year undergraduate courses may be considered if a K-12 adaptation is also provided in the proposal. For deliverables and dissemination information, please see the next topic below. The proposed classroom activities/labs should meet the following criteria:
 - ◆ The learning outcomes are clearly stated and explicitly align with one or more of the four categories of [Principles for Teaching Plant Biology](#).
 - ◆ The activities/labs in the module are achievable without highly specialized equipment, expertise/background knowledge, or a large monetary investment.
 - ◆ The module can be worked into an existing course and is not itself a stand-alone course
 - ◆ The activities/labs in the module are written in or translated into English prior to dissemination
 - ◆ The deliverables include all information needed to execute the activity/lab with students (see below)
 - ◆ There is a clear assessment plan for the stated learning outcomes.
 - ◆ Priority will be given to proposals that include K-12 educators as Project Leaders or Co-Leaders
- Funded projects will be required to submit a final report and deliverables that include the following types of items:
 - ◆ A one-page lesson overview of the lesson and its components for interested educators
 - ◆ All teaching materials, slides, labs, student guides, handouts
 - ◆ Teacher preparation guides, teacher content review/notes, written or video tutorials ([example](#) of a video demonstration from a funded project), rubrics

- ◆ Student assessment questions, homework assignments, and answer guide
- ◆ List of any required materials with sources and approximate costs
- ◆ Suggestions for adaptation for different age groups (e.g., if Undergraduate, include an adaptation for high school), classroom sizes, funding levels, length of classes, etc.

- The 2024 application opens on January 22.
- Prepare the proposal using the guidelines below and then submit the information using the fillable form at <http://bloome.aspb.org> by 11:59 p.m. ET on April 8, 2023.
- Previously funded projects can be found at <https://plantae.org/education/#grant-supported-resources>
- Applicants will be notified of the committee's decision by email, usually within one month of the submission deadline.

Grant proposals are limited to 6 total pages. They MUST include the following labeled sections and adhere to these general formatting guidelines:

- ◆ single spaced
- ◆ 12-point font
- ◆ minimum of one-inch margins

1. Introduction – Limited to one page

- ◆ Project title
- ◆ Project Leader's name and institutional/school affiliation
- ◆ Co-Leader name(s) and institutional/school affiliation(s)
- ◆ Total amount requested
- ◆ 300-word summary that addresses the three major elements of the project description: A) goals and objectives, B) project details, and C) assessment plan

2. Project Description - Limited to three pages

A. Goals and Objectives

- Clear statement of project goals and objectives
- Importance of project
- Alignment with one or more [Principles for Teaching Plant Biology](#)
- List of specific NGSS learning outcomes that will be addressed ([use this document](#) to select the relevant NGSS LOs for each principle)

B. Project Details

- Project activities with estimated preparatory and classroom time required for implementation of the activity or lab.

- Alignment of each activity with the learning outcomes described in Part A
- Target audience(s)/grade level and number of participants
- Project timeline: written or graphical description indicating the timeline of grant activities during the one-year funding period

C. Assessment Plan

- Description of how achievement of the proposed goals and objectives (part A) will be evaluated
- Description of assessment tools to be used to evaluate the activity/lab and explanation of why they are appropriate for this specific project
- Summary of how your assessment will inform further development or iterations of the activity/lab
- List of assessment topics to be developed for teacher use (e.g., homework assignments, quiz and test questions, etc.)
- Note: Priority will be given to proposals that include and reference a valid, knowledge-based assessment to be used with the activity/lab.

3. Statement of Teaching Philosophy for the Project Leader and Co-Leaders (if applicable) – Limited to one page

- ◆ Relevant pedagogical techniques
- ◆ Teaching experience
- ◆ Previously developed lab or classroom activities
- ◆ Other relevant credentials

4. Itemized Budget – Limited to one page

- Budget limit is \$8,500
- The following items **should** be considered for inclusion in the budget (each should be itemized and justified separately):
 - \$30/hr stipend for the project leader and additional personnel to cover the development of materials, assessment, videography, or other costs. Estimate hours for each member of the team and provide justification.
 - Cost of consumable supplies or inexpensive equipment needed to test the module implementation. Costs should be reasonable, and a list of required supplies and prices must be provided in the deliverables.
 - ASPB membership for the Project Leader (if not currently a member)
 - Travel costs if the travel enhances the development of the module (e.g., site visits, collaboration visits, classroom implementation tests, assessment)
 - Any cost related to the project even if funded by an outside source (indicate as such)
- The following items **may not** be included in the budget:
 - Fringe benefits
 - Indirect costs (overhead)
 - Expensive, long-term equipment acquisitions

- Additional ASPB memberships beyond the Project Leader
- Publication costs
- Dissemination costs (e.g., conference travel)
- Funds to support endowments or granting programs

Requirements:

- The Project Leader must be a current ASPB member or agrees to [join ASPB](#) if their project is funded. The cost of membership for the Project Leader may be included in the budget.
- ASPB retains the right to the use of projects, materials, and results developed with grant funding. Upon project completion, recipients **must** submit a final report, all generated materials, and a one-page handout to ASPB for dissemination online and at education/outreach events. The project leader may choose to additionally seek publication of the activity/lab **after the final report and deliverables are submitted to ASPB.**
- All recipients are invited to advise future applicants who seek their consultation on developing a winning proposal.
- Project Leaders whose proposals are funded will attend an onboarding Zoom call before the start of the funding period and a mid-point Zoom call midway through the funding period.

Questions?

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