

Behind the Scenes



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Advanced Technological Education Program

www.nsf.gov/ate



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Hello



LyssaWilson Becho



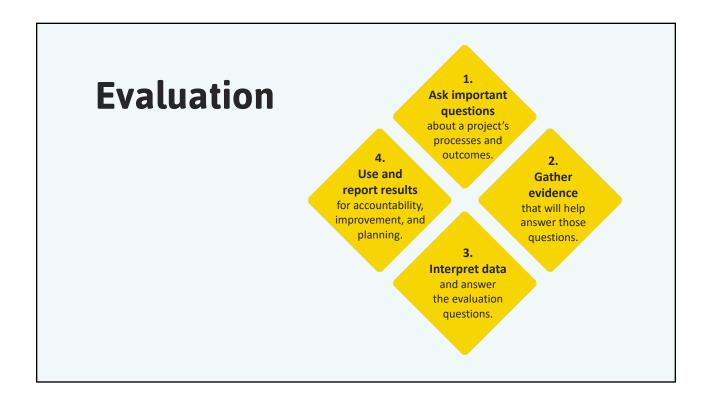
Agenda

- Evaluation overview
- Pitfalls of evaluation plans in ATE proposals
- Toolkit and other resources



Evaluation

A systematic determination of a project's quality and effectiveness.

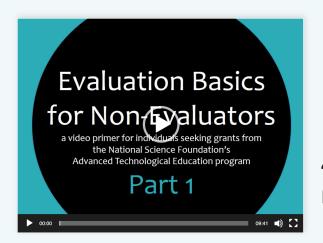




"If you don't evaluate and assess your activities and outcomes you can't know if the project was successful. It also provides the project team with data to convince others of the success of the project as well as contributing to the body of knowledge in that particular area of STEM."



Learn about evaluation basics...



"Evaluation Basics for Non-Evaluators" Video Series







This checklist provides information on what should be included in evaluation plans for proposals to the National Science Foundation's (NSF) Advanced Technological Education (ATE) program. Grant seekers should carefully read the most recent ATE program solicitation (http://bit.lu/nsf-ate) for details about the program and proposal submission requirements.

Evaluation Plan

TE proposals must include a subsection titled "Evaluation Plan" within the 15-page project description EvaluATE recommends dedicating one to two pages to the evaluation plan and including the following five elements:

1. Evaluator

- ☐ Identify the project's evaluator by name and organization.
 ☐ Briefly describe the evaluator's qualifications, including their experience evaluating STEM education
- programs.

 Refer to the evaluator's biosketch and letter of collaboration and include these as supplementary
- documents.

 If the evaluator is an employee of the project's host institution, explain how the evaluator is independent from the project (they should not work in the same department or be a supervisor or supervisee of project personnel).

 If the project's host institution has a policy that prohibits selecting an evaluator at the proposal stage:

 Explain the institutional policy that does not allow for selection of an evaluator prior to funding.

 Describe how an evaluator will be selected after the award is made.

2. Evaluation Questions

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Evaluation Plan Checklist for ATE Proposals

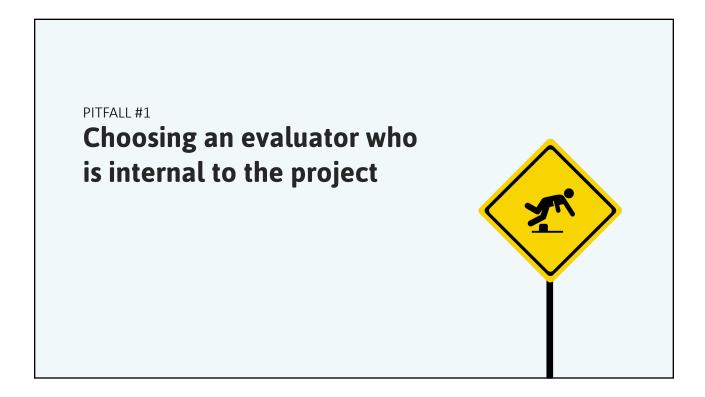
Learn about what to include...



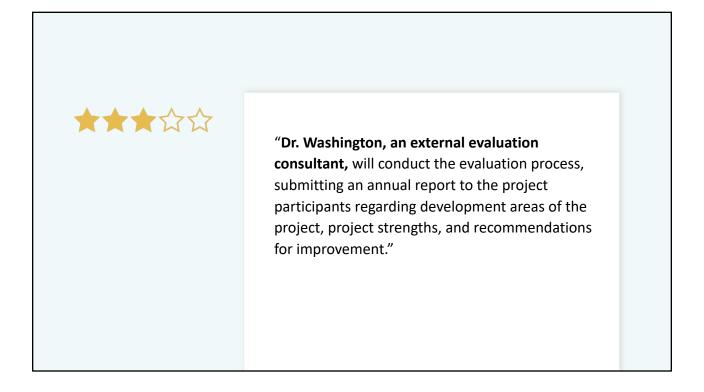
"Evaluation: The Secret Sauce in Your ATE Proposal" Video Series











PITFALL #1

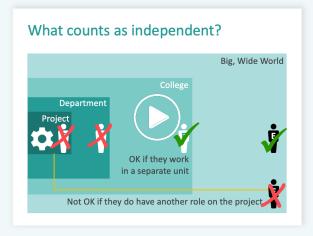
Choosing an evaluator who is internal to the project

INSTEAD:

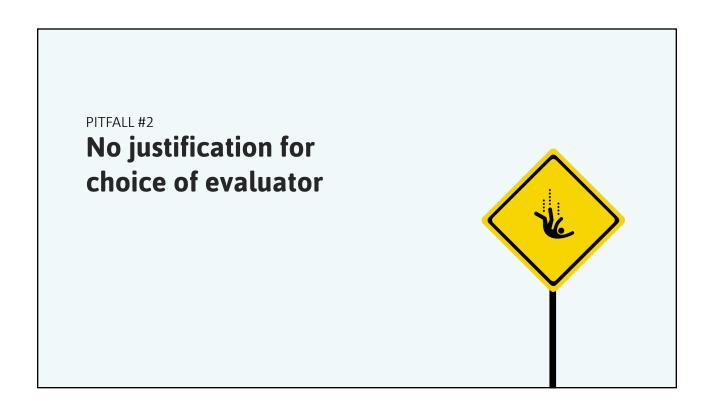
 Ensure the evaluator has no connection to or political influence over project or team members

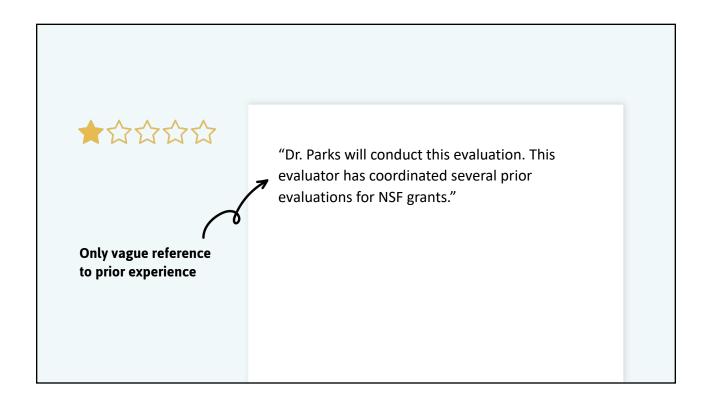


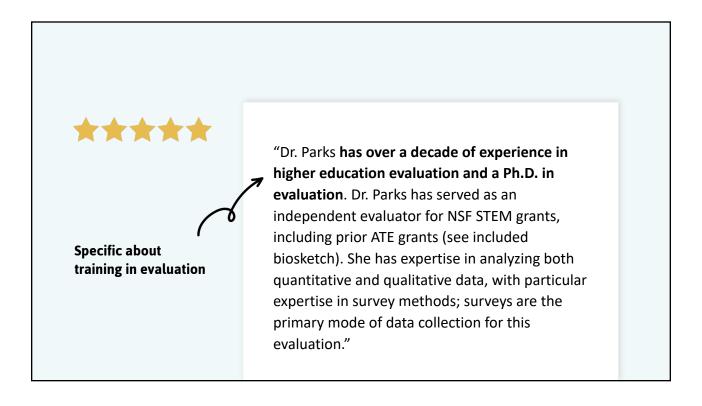
Learn more about evaluator independence...

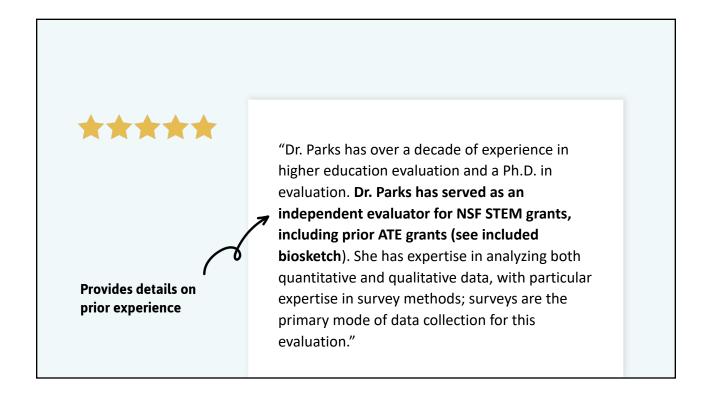


"Evaluation: The Secret Sauce in Your ATE Proposal" Video Series











Matches methodological expertise to proposed evaluation plan "Dr. Parks has over a decade of experience in higher education evaluation and a Ph.D. in evaluation. Dr. Parks has served as an independent evaluator for NSF STEM grants, including prior ATE grants (see included biosketch). She has expertise in analyzing both quantitative and qualitative data, with particular expertise in survey methods; surveys are the primary mode of data collection for this evaluation."

PITFALL #2 No justification for choice of evaluator INSTEAD: Address evaluator's qualifications Showcase prior experience Match qualifications to evaluation plan

Learn more about evaluator qualifications...



Finding and Selecting an Evaluator for Advanced Technological Education (ATE) Proposals

Lori A. Wingate | July 2017 | www.evalu-ate.org

ATE PROPOSERS SHOULD CAREFULLY READ THE ATE PROGRAM SOLICITATION: bit.lv/2017ATE

All ATE proposals are required to request "funds to support an evaluator independent of the project." Idea to the project of the project of

This guide includes advice on how to locate and select an external evaluator. It is not intended as a guide for developing an evaluation plan or contracting with an evaluator.

1. What is an external evaluator?

2. When should I start working with an evaluator?

Proposal developers should contact an evaluator at least one month in advance of the proposal's due date—earlier if possible. A good evaluation plan should be closely aligned with the project's goals and activities. To achieve good alignment, the evaluator needs time to review a draft of the proposal, ask questions, and develop a sound evaluation plan. With short notice, some evaluators may offer to provide a generic evaluation plan. However, seasoned proposal reviewers will give your proposal a more favorable review if it has a well-integrated, tailored evaluation plan.

3. Where should I look for an evaluator?

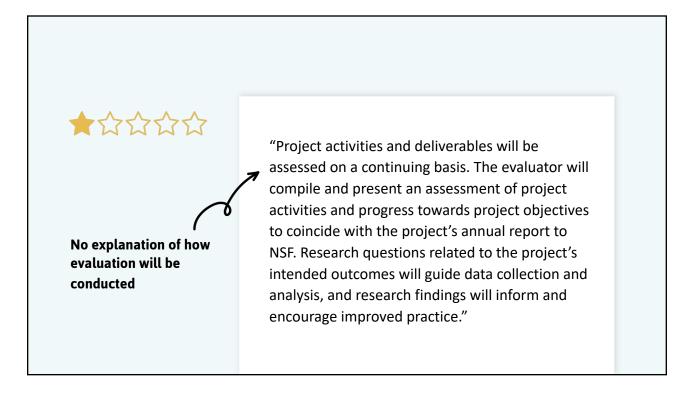
There is no list of vetted or approved evaluators for NSF projects. It is up to the proposal developer (which is usually the principal investigator) to locate an evaluator and determine if they are qualified and right for a

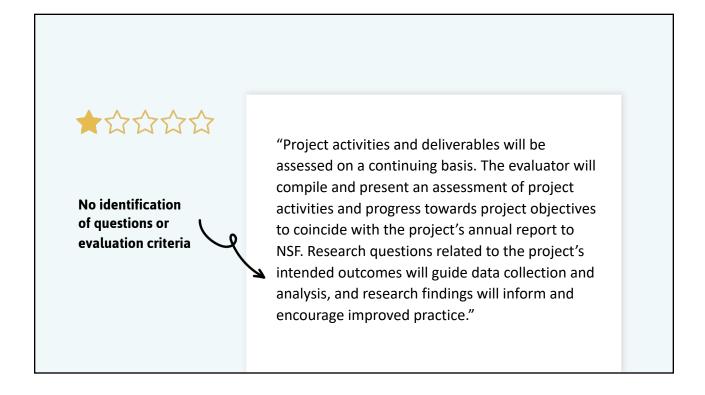
Finding and Selecting an **Evaluator for ATE Proposals**

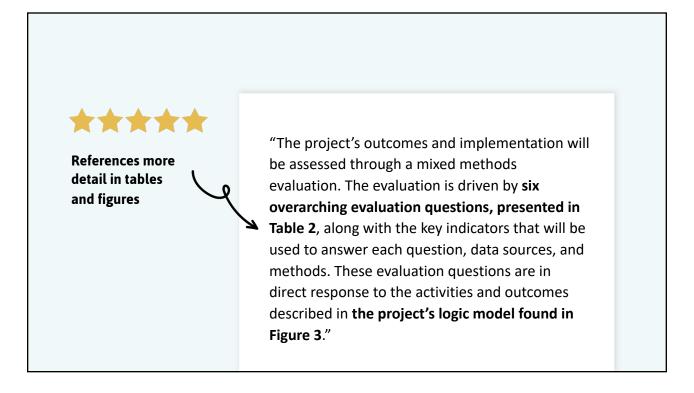
PITFALL #3

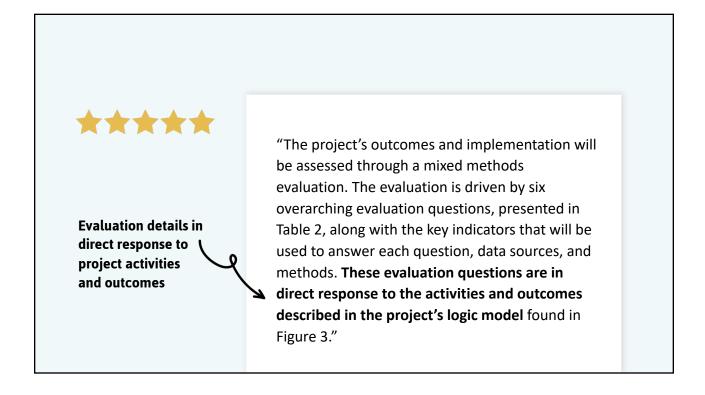
Overly general, cut-andpaste evaluation plan











PITFALL #3

Overly general, cut-andpaste evaluation plan

INSTEAD:

- Be specific to project
- Expand on how evaluation activities match with project goals and outcomes
- Avoid vague, filler language



Learn more about helpful hints for evaluation plans...



What should be included in an ATE proposal's evaluation plan? What do reviewers want to see? While both of these are important questions, it is also important to make sure you have an evaluation plan in place from the beginning that will provide good information about how well your project is going what imports you are having. Based on my experiences as a reviewer and participant in many panels, I recommend you consider these things when preparing the evaluation section of your ATE proposal. A good evaluation plan almost always raises the proposal ratings.

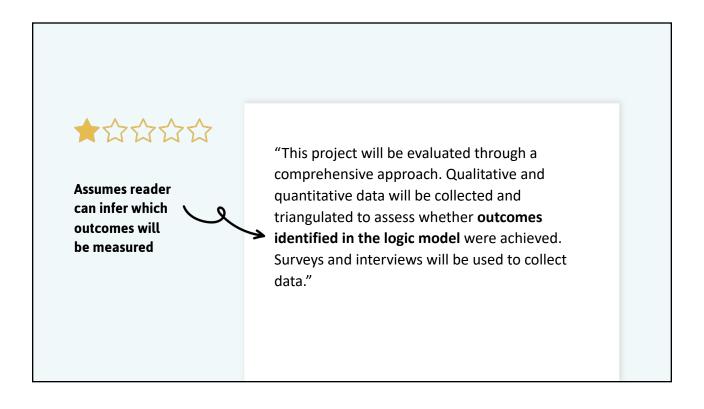
10 Helpful Hint

Identify an evaluator in advance and include that person's name and qualifications in the proposal. If possible, the evaluator should have experience and expertise in evaluating programs at two-year colleges and/or workforce-related projects. A few sentences should be included in the proposal itself about the evaluator's expertise. For ATE, a two-page vita should be included in the supplementary documents section and tailored, using the required NSF biographical sketch format, to demonstrate the evaluator's qualifications to evaluate this particular project. (See NSE PAPPG 20.1 and EvaluATE's biosketch templets thitse.//www.evaluate or pricesures/biosketch/ for guidance). If your institutional policy does not allow you to identify an evaluator prior to funding, it is still important to note the skills and qualifications you will be seeking in an evaluator in the evaluator section of the proposal. The evaluator should not be a co-principal investigator and should have independence from the project. For smaller projects, the evaluator tool be in the institutional research office or other department at the institution, but the evaluator for larger projects should be external to the institution, locket. Many other NSF programs do not allow supplementary documents.

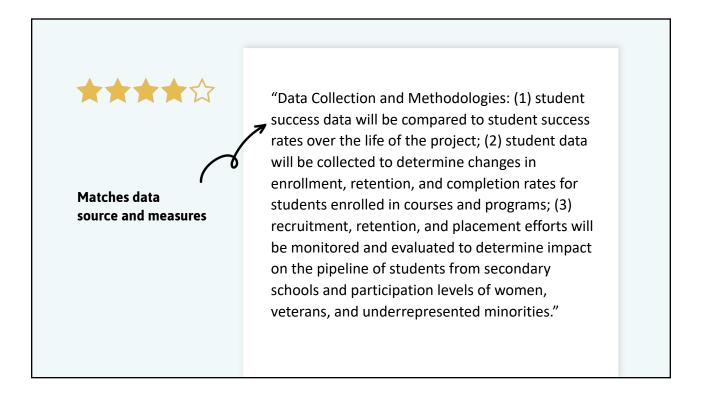
10 Helpful Hints and 10 Fatal Flaws

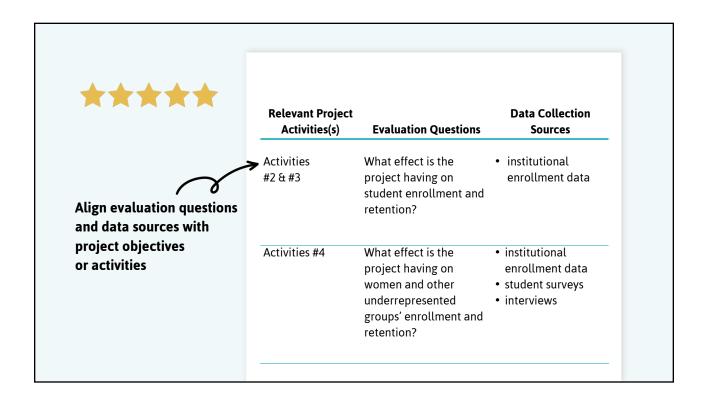




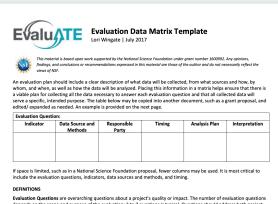








Learn more about evaluation data matrixes...



Evaluation Questions are overarching questions about a project's quality or impact. The number of evaluation question depends on the scope and purpose of the evaluation; 3 to 7 questions is typical. Questions should address both project

Indicators are specific pieces of information about an aspect of a project—basically, what will be measured i answer the evaluation questions. It is useful to use multiple indicators to address an evaluation question, in qualitative and quantitative data.

Evaluation Data Matrix Template

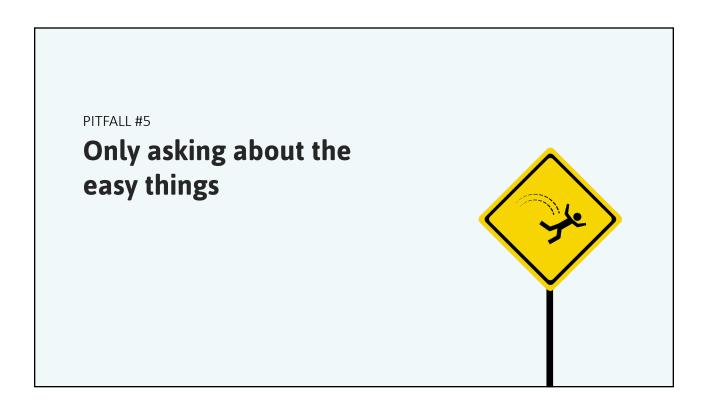
PITFALL #4

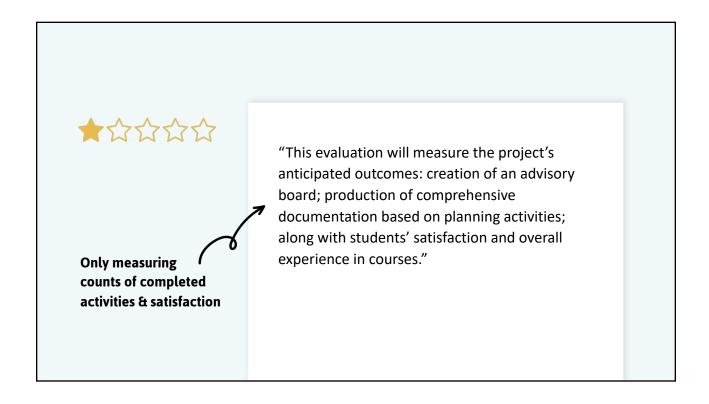
Unclear connections between project goals, evaluation methods, and measures

INSTEAD:

- Match project activities, data collection methods, and evaluation criteria
- Use a table to connect pieces









Goes beyond outputs or short-term outcomes

"The evaluation will focus on the program's impact on student academic success and career choice outcomes. The evaluation will track student degree completion rates and course grades, and will conduct an analysis to help determine whether certain factors predict student success in the program. The surveys will ask students to rate their overall experience with the program, share their current/future career goals, and describe the skills they have gained in the past year. After graduating, students will also be invited to complete a survey about their current job placement and plans for the future."

PITFALL #5

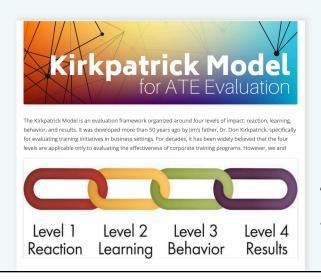
Only asking about the easy things

INSTEAD:

- Go beyond outputs and short-term outcomes
- Consider asking about both the project's process and its outcomes



Learn more about the Kirkpatrick model...



"Kirkpatrick Model for ATE Evaluation" Blog

PITFALL #6

No discussion of how evaluation will be used



