



1



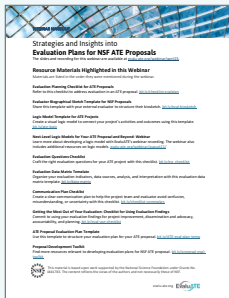
<sup>2</sup>  
Slides available at:  
[evalu-ate.org/webinar/aug23](http://evalu-ate.org/webinar/aug23)

1

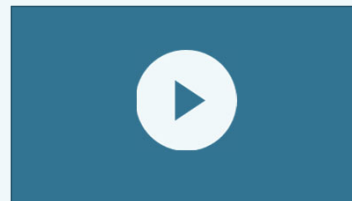
# Materials



Slides



Additional  
Resources



Recording



3

# Introductions



**Samantha**

Hooker



**Lyssa**

Wilson Becho



4

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

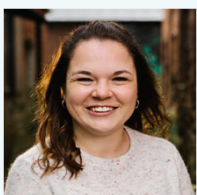
## Behind the Scenes



**Maureen  
Green**



**Lori  
Wingate**



**Erika  
Sturgis**



**Megan  
López**



5

## Thank You



**Nikki  
Glazer  
Stoicoiu**



**Elizabeth  
Hawthorne**



**Elaine  
Craft**



**Pam  
Silvers**



**Emery  
DeWitt**



6

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)



This material is based upon work supported by the National Science Foundation under Grants No. 1841783. The content reflects the views of the authors and not necessarily those of NSF.



7



Lyssa

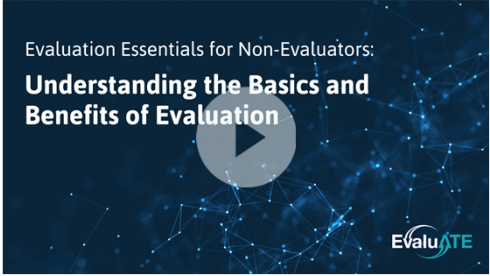

8

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)



# Resources

## WHAT IS EVALUATION?

9

# Evaluation

## PURPOSES

- Project improvement
- Accountability
- Evidence


10

Slides available at:  
evalu-ate.org/webinar/aug23

5

# Evaluation


## PURPOSES



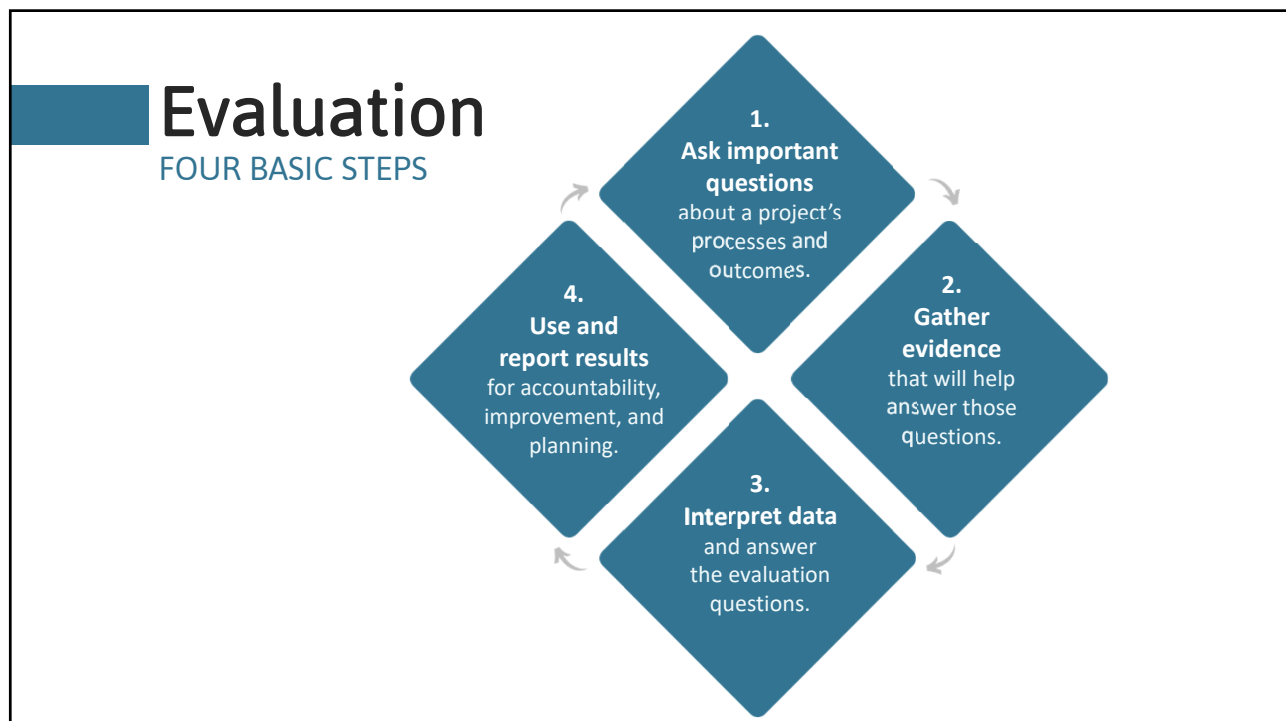
“if you don’t evaluate and assess your activities and outcomes you can’t know if the project was successful.”

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.”

**Celeste Carter**  
ATE Program Director



11

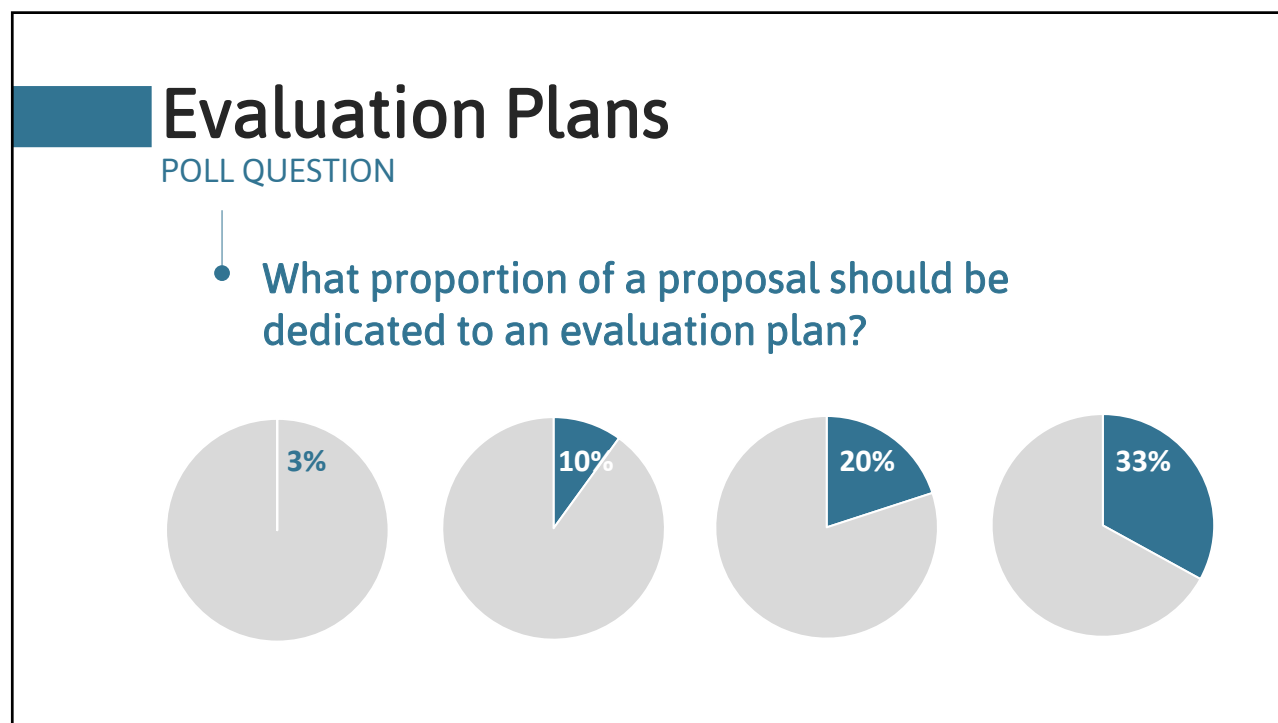


12

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)



13



14

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)





## 1-2 PAGES

## Evaluation Questions 2



## 1-2 PAGES

## Evaluation Questions

Data 3

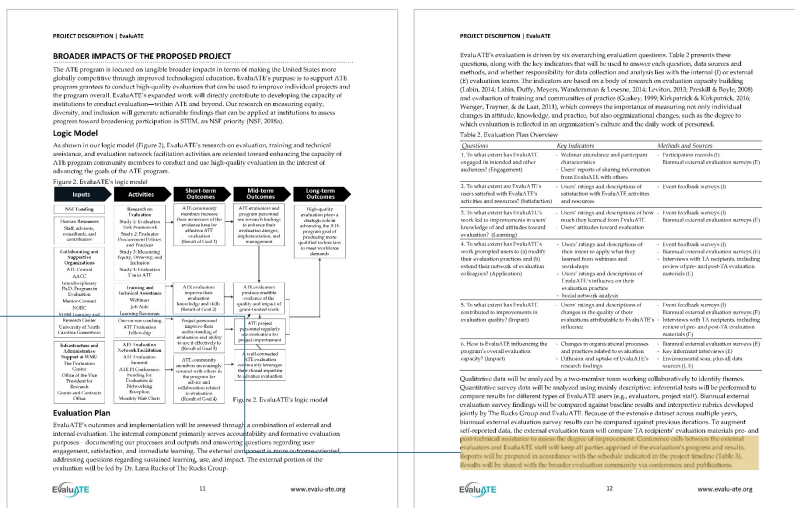


18  
Slides available at:  
[evalu-ate.org/webinar/aug23](http://evalu-ate.org/webinar/aug23)

1-2 PAGES

Evaluator  
 Evaluation Questions  
 Data  
 Communication & Use

4

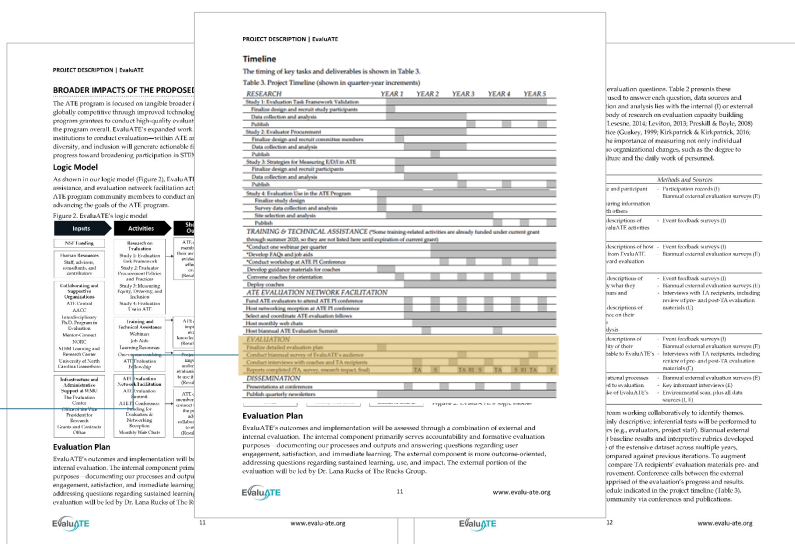


19

## 1-2 PAGES

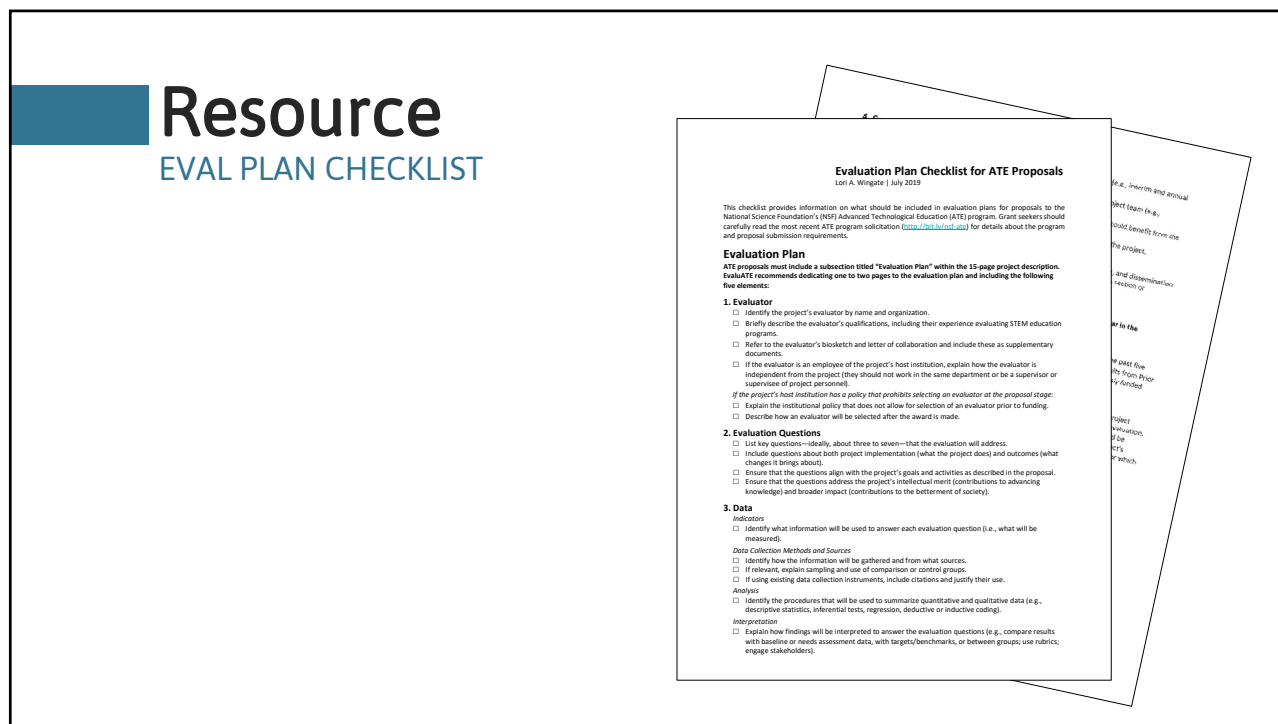
Evaluator  
 Evaluation Questions  
 Data  
 Communication & Use  
 Timeline

5



20

Slides available at:  
[evalu-ate.org/webinar/aug23](http://evalu-ate.org/webinar/aug23)



21



22

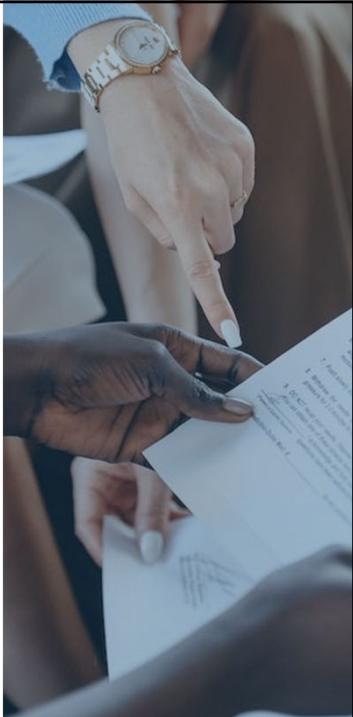
Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)



## Evaluator

### EVAL PLAN CHECKLIST

- Identify the project's evaluator
- Describe the evaluator's qualifications
- Refer to the evaluator's biosketch and letter of collaboration



23

## Remember Jen Genericson\*?



She has a **GREAT** idea for an ATE proposal

\*This is a fictional character and not a real person. Any resemblance to actual persons or projects is coincidental.

24

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)





25




26


Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

# Resources

## IDENTIFYING YOUR EVALUATOR

### Guide to Finding and Selecting an Evaluator





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

Lori A. Wingate | July 2017 | [www.evaluate.org](http://www.evaluate.org)

**ATE PROPOSERS SHOULD CAREFULLY READ THE ATE PROGRAM SOLICITATION:** [bit.ly/2017ATE](https://www.nsf.gov/pubs/2017/2017-1/ate)

All ATE proposals are required to request "funds to support an evaluator independent of the project." Ideally, this external evaluator should be identified in the project proposal. The information in this guide is for individuals who are able to select and work with an external evaluator at the proposal stage. However, some institutions prohibit selecting an evaluator on a noncompetitive basis in advance of an award being made. Advice for individuals in that situation is provided in an EvaluATE blog ([bit.ly/no-exel](https://www.evaluate.org/blog/2017/08/01/ate-evaluator-selection/)) and newsletter article ([bit.ly/no-exel](https://www.evaluate.org/newsletter/2017/08/01/ate-evaluator-selection/)).

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?**  
An external evaluator is the person who will lead the design and implementation of the evaluation of your ATE project. The evaluation will include systematic collection and analysis of evidence related to the quality, effectiveness, and impact of the project. To be external, the evaluator must be independent of the project (see Question 3).
- 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 project.  
Here are three sources for locating a potential evaluator:  
  - Ask colleagues for recommendations: If you know someone with a grant that has an evaluation component, ask for the evaluator's name and contact information.
  - Use the American Evaluation Association's evaluator directory ([bit.ly/aea-dir](https://www.evaonline.org/directory/)): It's searchable by state and keyword.
  - Use ATE Central's evaluator map ([atecentral.net/evaluators/](https://atecentral.net/evaluators/)): This interactive map can be used to identify evaluators by location and the types of ATE projects they evaluate.

Most ATE projects employ evaluators based outside of their home institutions. However, program rules do allow grant recipients to contract with an evaluator who is employed by the project's home institution, as long as the evaluator is independent of the project. That is, the evaluator should not work in the same unit


This material is based on work supported by the National Science Foundation under Grant No. 1800992. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.


27

# Resources

## IDENTIFYING YOUR EVALUATOR

### Evaluator Procurement Process





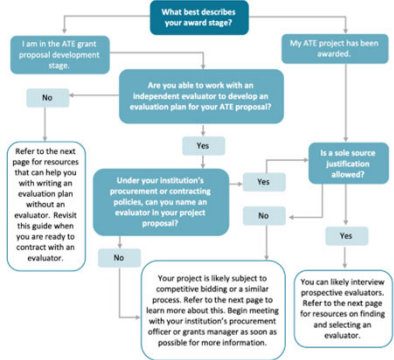
**Guide to Navigating the Evaluator Procurement Process**

Megan López & Michael Lesiecki | February 2023

Every NSF-funded ATE project is required to include an evaluation plan in its proposal and to work with an independent evaluator. For many projects, the act of procuring independent evaluation services is subject to institutional procurement policies. This step-by-step map aims to provide prospective and new ATE grantees with a general overview of when and how to select an evaluator. This resource may be most helpful while developing an ATE proposal and/or before naming an independent evaluator.

Remember, this process varies across institutions and can take time. Therefore, we recommend meeting early on with those who can walk you through your institution's specific process (e.g., your institution's procurement officer, purchasing or fiscal agent, or grants manager).

**Mapping Out the Evaluator Procurement Process**



1

[www.evaluate.org](http://www.evaluate.org)


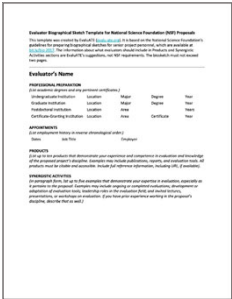
28

Slides available at:  
[evalu-ate.org/webinar/aug23](http://evalu-ate.org/webinar/aug23)

# Resources

## IDENTIFYING YOUR EVALUATOR


### Evaluator Biosketch Template





### Strategies and Insights into Evaluation Plans for NSF ATE Proposals

The slides and recording for this webinar are available at [evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23). Materials are listed in the order they were mentioned during the webinar.

- Evaluation Plan Checklist for ATE Proposals**  
Refer to this checklist to address evaluation in an ATE proposal. [bit.ly/checklist-evalplan](https://bit.ly/checklist-evalplan)
- Evaluator Biographical Sketch Template for NSF Proposals**  
Share this template with your external evaluator to structure their biosketch. [bit.ly/eval-biosketch](https://bit.ly/eval-biosketch)
- Guide to Finding and Selecting an Evaluator**  
Locate and select an external evaluator for your ATE proposal. <https://bit.ly/find-evaluator>
- Evaluator Procurement Process**  
Learn the next steps for procuring an evaluator based on your institutional policies and restrictions. <https://bit.ly/eval-procurement-map>
- Logic Model Template for ATE Projects**  
Create a visual logic model to connect your project's activities and outcomes using this template. [bit.ly/ate-logic](https://bit.ly/ate-logic)
- Next-Level Logic Models for Your ATE Proposal and Beyond: Webinar**  
Learn more about developing a logic model with EvaluATE's webinar recording. <https://evalu-ate.org/webinar/august23/>
- Evaluation Questions Checklist**  
Craft the right evaluation questions for your ATE project with this checklist. [bit.ly/eq-checklist](https://bit.ly/eq-checklist)
- Evaluation Data Matrix Template**  
Organize your evaluation indicators, data sources, analysis, and interpretation with this evaluation data matrix template. [bit.ly/data-matrix](https://bit.ly/data-matrix)
- Communication Plan Checklist**  
Create a clear communication plan to help the project team and evaluator avoid confusion, misunderstanding, or uncertainty with this checklist. [bit.ly/checklist-commplan](https://bit.ly/checklist-commplan)
- Getting the Most Out of Your Evaluation: Checklist for Using Evaluation Findings**  
Commit to using your evaluation findings for project improvement, dissemination and advocacy, accountability, and planning. [bit.ly/eval-use-checklist](https://bit.ly/eval-use-checklist)
- ATE Proposal Evaluation Plan Template**  
Use this template to structure your evaluation plan for your ATE proposal. [bit.ly/ATE-eval-plan-tema](https://bit.ly/ATE-eval-plan-tema)

 This material is based upon work supported by the National Science Foundation under Grants No. 1841783. The content reflects the views of the authors and not necessarily those of NSF.

evalu-ate.org 

29

2

# Evaluation Questions


30

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

# Evaluation Questions

## EVAL PLAN CHECKLIST


- ☐ List the key questions that the evaluation will address
- ☐ Include questions about both project implementation and outcomes
- ☐ Ensure that questions align with project's goals and activities





31

# Evaluation Questions

## WHAT MAKES A GOOD EVALUATION QUESTION?

 **Evaluative**

-  **Not evaluative:**  
How many students did the project serve?
-  **Evaluative:**  
What was the project's impact on program enrollment?


32


Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)





# Evaluation Questions

## WHAT MAKES A GOOD EVALUATION QUESTION?

 Evaluative

 Reasonable ●


 **Unreasonable:**  
Did the project increase hygienic welding employment in the state?


 **Reasonable:**  
To what extent did students served by the project find employment in the hygienic welding sector?


33


# Evaluation Questions


## WHAT MAKES A GOOD EVALUATION QUESTION?

 Evaluative

 Reasonable

 Specific ●

 **Vague:**  
Did the project increase instructor effectiveness?





 **Specific:**  
To what extent did participating instructors increase their knowledge about sanitary welding techniques?


34


Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

# Evaluation Questions

## WHAT MAKES A GOOD EVALUATION QUESTION?

-  Evaluative
-  Reasonable
-  Specific
-  Answerable






 **Unanswerable:**  
To what extent does the project affect long-term persistence in STEM careers?

 **Answerable:**  
To what extent does the project affect students interest in pursuing a future career in STEM?

35

# Evaluation Questions

## WHAT MAKES A GOOD EVALUATION QUESTION?

-  Evaluative
-  Reasonable
-  Specific
-  Answerable
-  Complete

36

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

# Logic Models

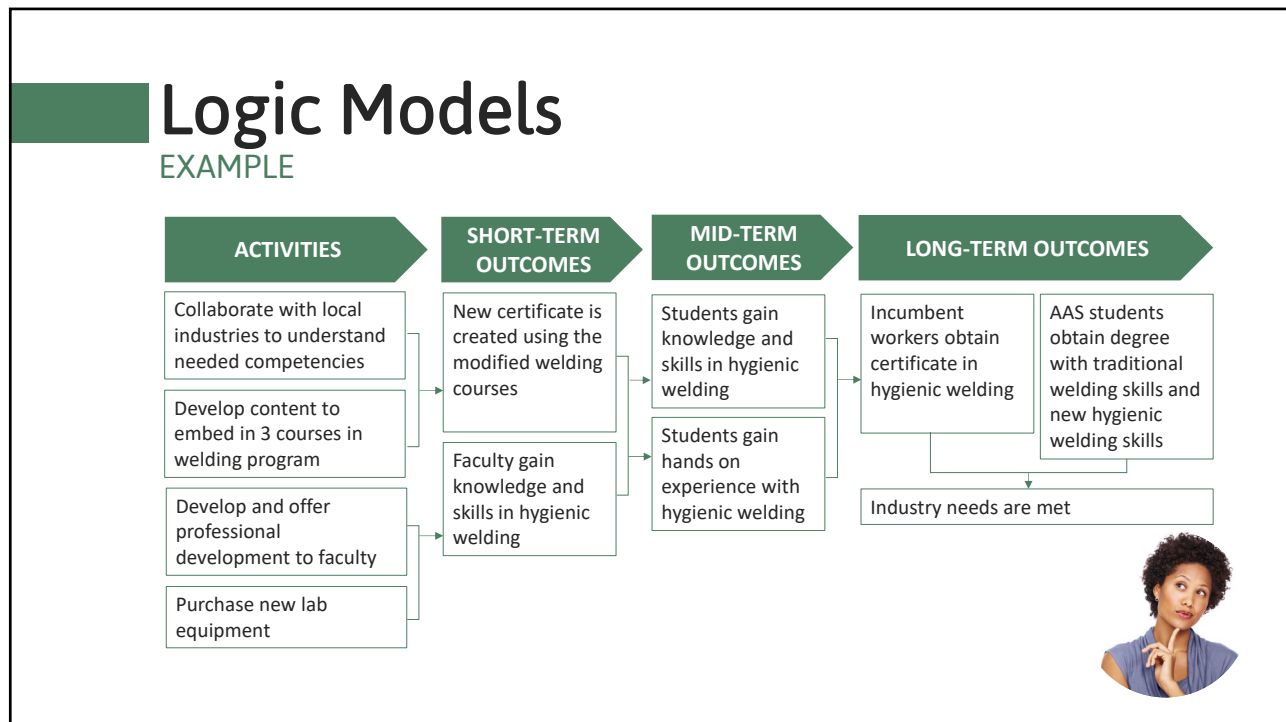
## ORGANIZING EVALUATION QUESTIONS

37

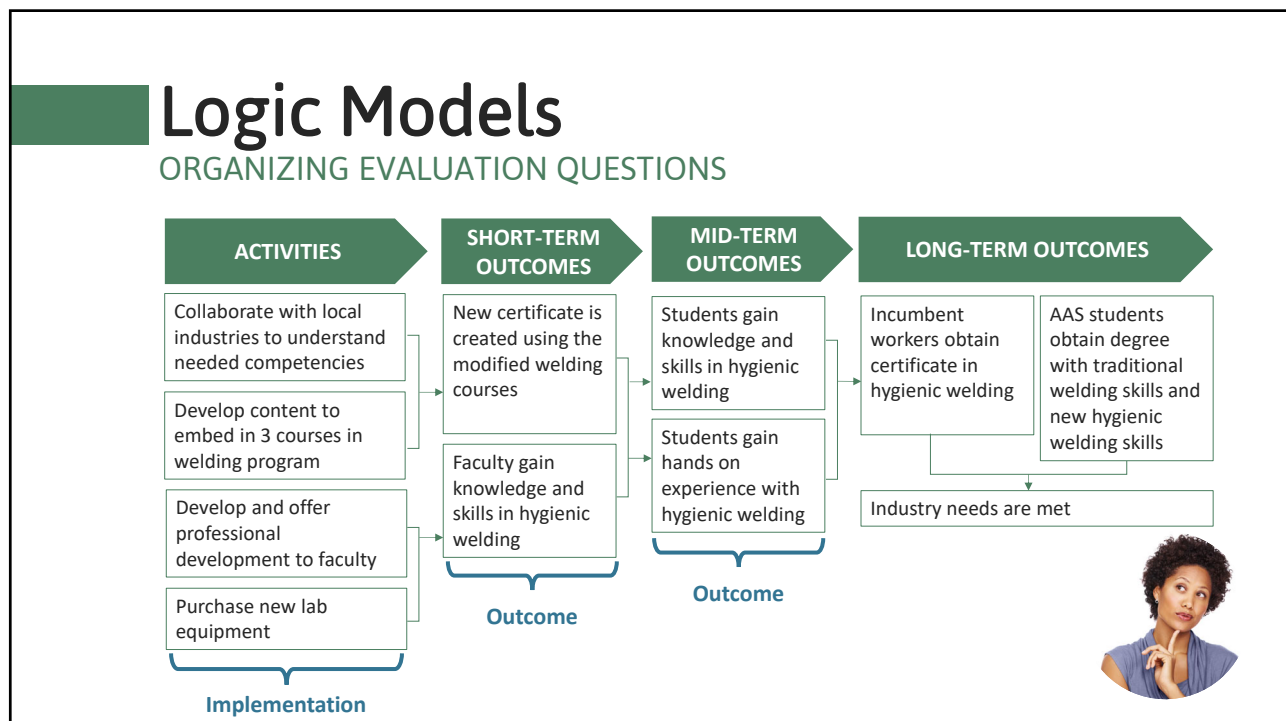
# Logic Models

## EXAMPLE

38



39



40

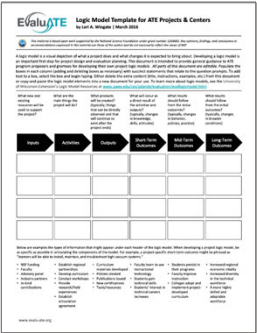
Slides available at:  
[evalu-ate.org/webinar/aug23](http://evalu-ate.org/webinar/aug23)

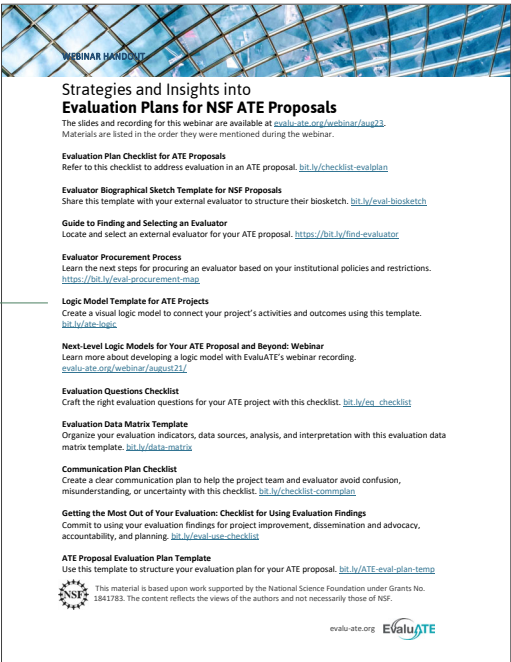


# Resources

## EVALUATION QUESTIONS

### Logic Model Template for ATE Projects






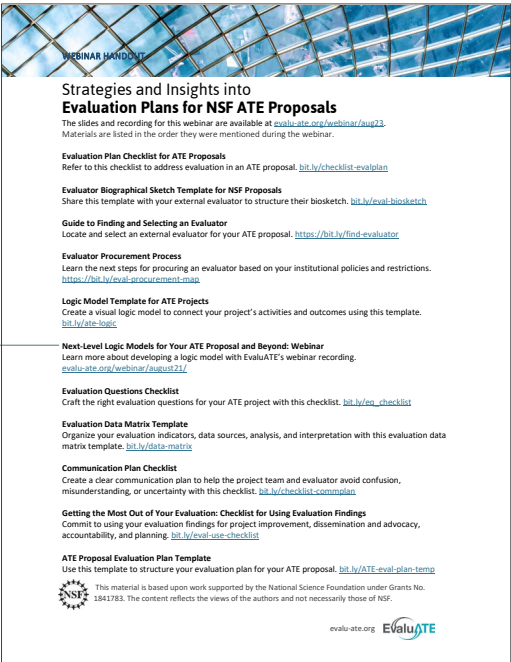
41

# Resources

## EVALUATION QUESTIONS

### Next-Level Logic Models for Your ATE Proposal and Beyond: Webinar





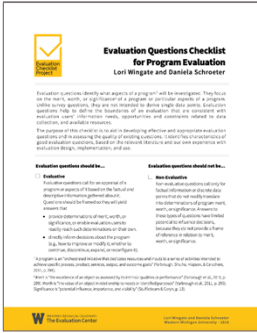
42

Slides available at:  
evalu-ate.org/webinar/aug23

# Resources

## EVALUATION QUESTIONS

### Evaluation Questions Checklist



### Strategies and Insights into Evaluation Plans for NSF ATE Proposals

The slides and recording for this webinar are available at [evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23). Materials are listed in the order they were mentioned during the webinar.

**Evaluation Plan Checklist for ATE Proposals**  
Refer to this checklist to address evaluation in an ATE proposal. [bit.ly/checklist-evalplan](https://bit.ly/checklist-evalplan)

**Evaluator Biographical Sketch Template for NSF Proposals**  
Share this template with your external evaluator to structure their biosketch. [bit.ly/eval-biosketch](https://bit.ly/eval-biosketch)

**Guide to Finding and Selecting an Evaluator**  
Locate and select an external evaluator for your ATE proposal. <https://bit.ly/find-evaluator>

**Evaluator Procurement Process**  
Learn the next steps for procuring an evaluator based on your institutional policies and restrictions. <https://bit.ly/eval-procurement-map>

**Logic Model Template for ATE Projects**  
Create a visual logic model to connect your project's activities and outcomes using this template. [bit.ly/ate-logic](https://bit.ly/ate-logic)

**Next-Level Logic Models for Your ATE Proposal and Beyond: Webinar**  
Learn more about developing a logic model with EvaluATE's webinar recording. [evalu-ate.org/webinar/august23/](https://evalu-ate.org/webinar/august23/)


**Evaluation Questions Checklist**  
Craft the right evaluation questions for your ATE project with this checklist. [bit.ly/eq-checklist](https://bit.ly/eq-checklist)


**Evaluation Data Matrix Template**  
Organize your evaluation indicators, data sources, analysis, and interpretation with this evaluation data matrix template. [bit.ly/data-matrix](https://bit.ly/data-matrix)

**Communication Plan Checklist**  
Create a clear communication plan to help the project team and evaluator avoid confusion, misunderstanding, or uncertainty with this checklist. [bit.ly/checklist-commplan](https://bit.ly/checklist-commplan)

**Getting the Most Out of Your Evaluation: Checklist for Using Evaluation Findings**  
Commit to using your evaluation findings for project improvement, dissemination and advocacy, accountability, and planning. [bit.ly/eval-use-checklist](https://bit.ly/eval-use-checklist)

**ATE Proposal Evaluation Plan Template**  
Use this template to structure your evaluation plan for your ATE proposal. [bit.ly/ATE-eval-plan-template](https://bit.ly/ATE-eval-plan-template)

 This material is based upon work supported by the National Science Foundation under Grants No. 1841783. The content reflects the views of the authors and not necessarily those of NSF.

evalu-ate.org 

43



44

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

22




45

## Data

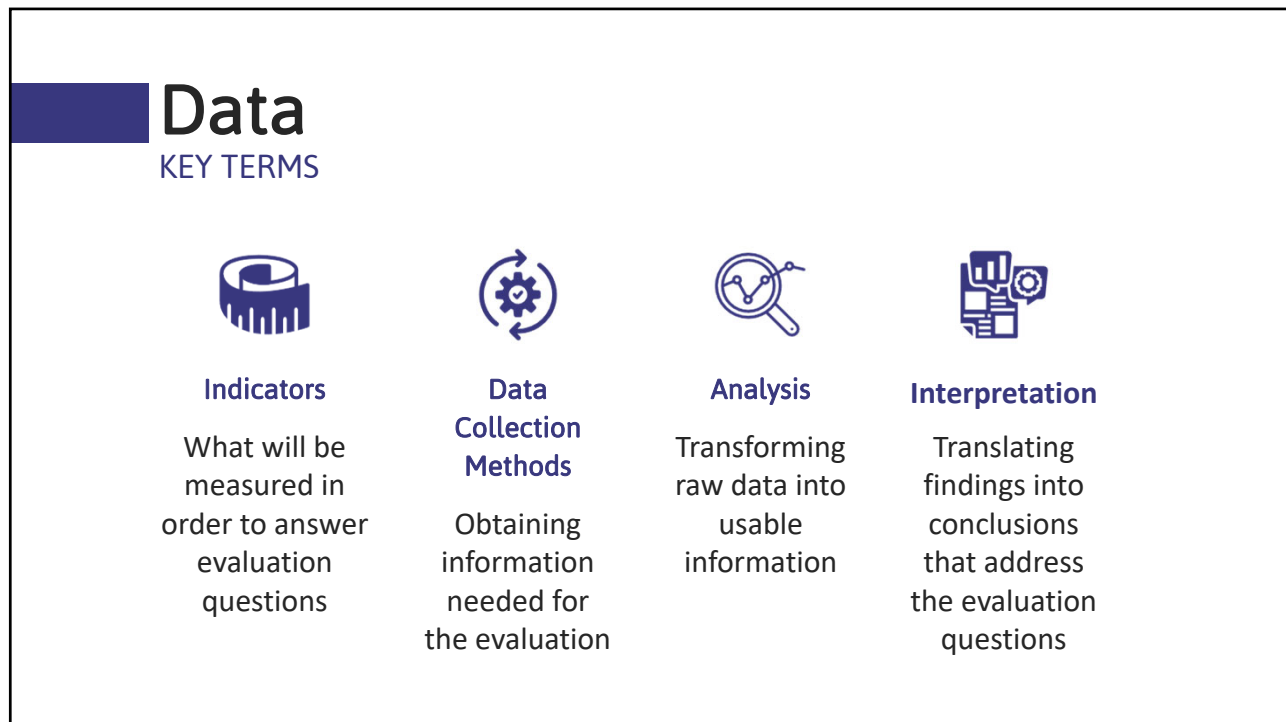
### EVAL PLAN CHECKLIST

- ☐ What information will be used to answer the evaluation questions
- ☐ How the information will be obtained and from what sources
- ☐ Procedures for summarizing quantitative and qualitative data
- ☐ Procedures for interpreting findings to answer evaluation questions

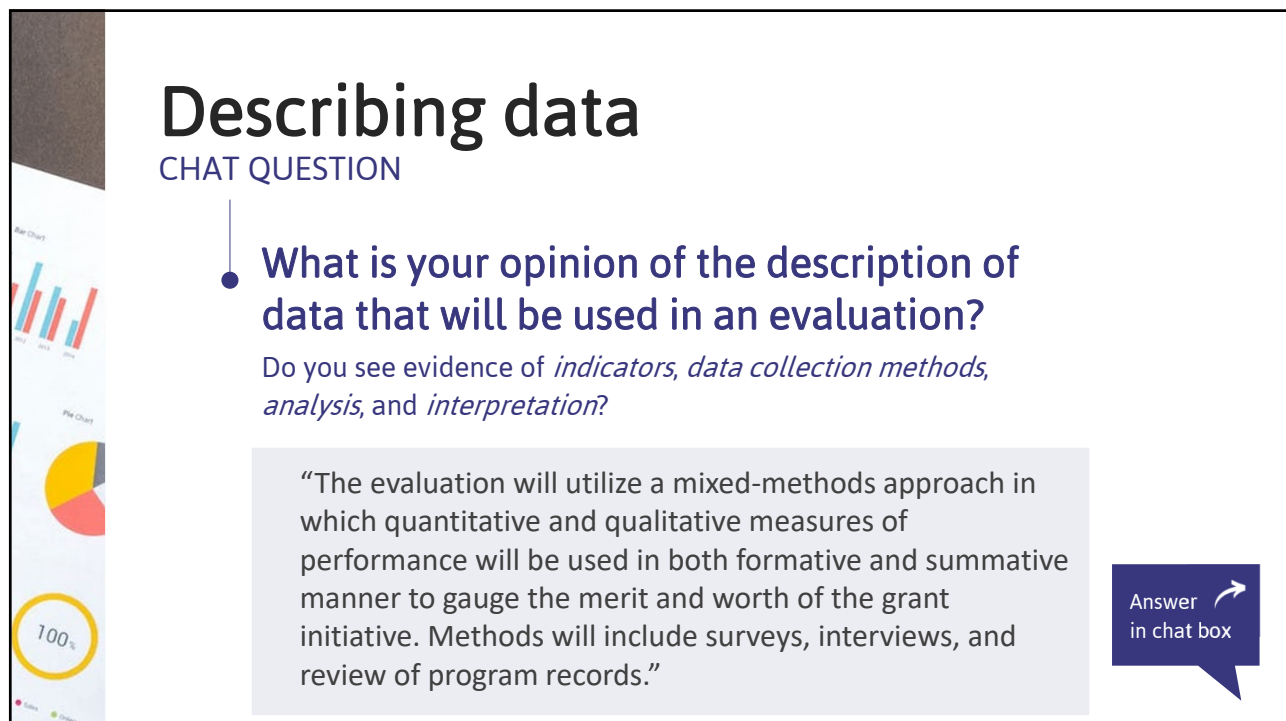


46

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)



47



**Describing data**  
CHAT QUESTION

- What is your opinion of the description of data that will be used in an evaluation?  
Do you see evidence of *indicators*, *data collection methods*, *analysis*, and *interpretation*?

"The evaluation will utilize a mixed-methods approach in which quantitative and qualitative measures of performance will be used in both formative and summative manner to gauge the merit and worth of the grant initiative. Methods will include surveys, interviews, and review of program records."


Answer in chat box

48


Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

# Data


## KEY TERMS




Indicators



Data Collection Methods




Analysis



Interpretation

It's OK to sacrifice some detail, but must convey there is a **concrete plan** for collecting and using evaluation data



49

# Data Matrix

**Evaluation Question 3: To what extent is participation in the professional development affecting faculty's knowledge and skills in hygienic welding?**

| Indicators   | Data Sources & Methods              | Analysis   | Interpretation  |
|--|-------------------------------------|--|---|
| Change in faculty knowledge of sanitary techniques and hygienic design | Pre- and post-assessment of faculty | Inferential statistics   | Compare understanding before workshop with after workshop   |
| Proficiency of faculty in basic hygienic welding techniques            | Observation assessment              | Descriptive statistics   | Compare with project target of 90% pass rate                |
| Faculty opinions about hygienic welding coursework                     | Survey                              | Descriptive statistics<br>Inductive coding of qualitative data | Compare results with rubric to judge degree of satisfaction |
| ...  | ...                                 | ...  | ...   |

50

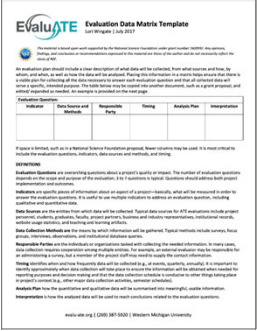
Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)




# Resources

## DATA

### Evaluation Data Matrix Template






#### Strategies and Insights into Evaluation Plans for NSF ATE Proposals

The slides and recording for this webinar are available at [evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23). Materials are listed in the order they were mentioned during the webinar.

- Evaluation Plan Checklist for ATE Proposals**  
Refer to this checklist to address evaluation in an ATE proposal. [bit.ly/checklist-evalplan](https://bit.ly/checklist-evalplan)
- Evaluator Biographical Sketch Template for NSF Proposals**  
Share this template with your external evaluator to structure their biosketch. [bit.ly/eval-biosketch](https://bit.ly/eval-biosketch)
- Guide to Finding and Selecting an Evaluator**  
Locate and select an external evaluator for your ATE proposal. <https://bit.ly/find-evaluator>
- Evaluator Procurement Process**  
Learn the next steps for procuring an evaluator based on your institutional policies and restrictions. <https://bit.ly/eval-procurement-map>
- Logic Model Template for ATE Projects**  
Create a visual logic model to connect your project's activities and outcomes using this template. [bit.ly/ate-logic](https://bit.ly/ate-logic)
- Next-Level Logic Models for Your ATE Proposal and Beyond: Webinar**  
Learn more about developing a logic model with EvaluATE's webinar recording. [evalu-ate.org/webinar/august23/](https://evalu-ate.org/webinar/august23/)
- Evaluation Questions Checklist**  
Craft the right evaluation questions for your ATE project with this checklist. [bit.ly/eq-checklist](https://bit.ly/eq-checklist)
- Evaluation Data Matrix Template**  
Organize your evaluation indicators, data sources, analysis, and interpretation with this evaluation data matrix template. [bit.ly/data-matrix](https://bit.ly/data-matrix)
- Communication Plan Checklist**  
Create a clear communication plan to help the project team and evaluator avoid confusion, misunderstanding, or uncertainty with this checklist. [bit.ly/eval-use-checklist](https://bit.ly/eval-use-checklist)
- Getting the Most Out of Your Evaluation: Checklist for Using Evaluation Findings**  
Commit to using your evaluation findings for project improvement, dissemination and advocacy, accountability, and planning. [bit.ly/eval-use-checklist](https://bit.ly/eval-use-checklist)
- ATE Proposal Evaluation Plan Template**  
Use this template to structure your evaluation plan for your ATE proposal. [bit.ly/ATE-eval-plan-template](https://bit.ly/ATE-eval-plan-template)

This material is based upon work supported by the National Science Foundation under Grants No. 1842783. The content reflects the views of the authors and not necessarily those of NSF.

evalu-ate.org 

51



4

## Communication & Use of Results


52

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

## Communication & Use

EVAL PLAN CHECKLIST


- ☐ Identify what evaluation reports will be prepared
- ☐ Identify the frequency with which the evaluator will communicate with the project team
- ☐ Describe how evaluation results will be shared with external audiences



53

## ATE-Specific Review Criteria


RELATED TO EVALUATION



- ✓ Is the evaluation likely to provide useful information to the project and others?
- ✓ Will the project evaluation inform others through the communication of results?

54

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)



## Which is the best description of evaluation communication & use?

POLL QUESTION

### Example A

The evaluator will work with the project PI to prepare required annual reports submitted to NSF. Evaluation reports will be shared with appropriate decision-makers. The two teams will meet as needed to ensure an effective evaluation.

### Example B

The evaluator will meet with the project team quarterly to share evaluation results and receive updates on the project. Interim evaluation reports will be used by project team for improvement. In the final year, the project PI will collaborate with the evaluator to prepare a presentation to present at national conferences.

### Example C

The evaluator will submit annual reports to the project PI and assist the project team in preparing evaluation results for inclusion in the project's annual report to NSF. Evaluation reports will be shared with the project's advisory committee.

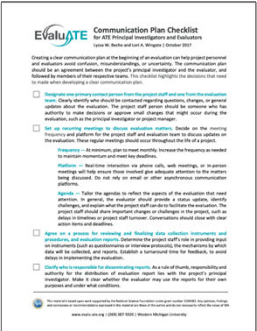
Answer in poll box

55

# Resources

## COMMUNICATION & USE

### Communication Plan Checklist



WEBINAR HANDOUT

### Strategies and Insights into Evaluation Plans for NSF ATE Proposals

The slides and recording for this webinar are available at [evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23). Materials are listed in the order they were mentioned during the webinar.

**Evaluation Plan Checklist for ATE Proposals**  
Refer to this checklist to address evaluation in an ATE proposal. [bit.ly/checklist-evalplan](https://bit.ly/checklist-evalplan)

**Evaluator Biographical Sketch Template for NSF Proposals**  
Share this template with your external evaluator to structure their biosketch. [bit.ly/eval-biosketch](https://bit.ly/eval-biosketch)

**Guide to Finding and Selecting an Evaluator**  
Locate and select an external evaluator for your ATE proposal. <https://bit.ly/find-evaluator>

**Evaluator Procurement Process**  
Learn the next steps for procuring an evaluator based on your institutional policies and restrictions. <https://bit.ly/eval-procurement-map>

**Logic Model Template for ATE Projects**  
Create a visual logic model to connect your project's activities and outcomes using this template. [bit.ly/ate-logic](https://bit.ly/ate-logic)

**Next-Level Logic Models for Your ATE Proposal and Beyond: Webinar**  
Learn more about developing a logic model with EvaluATE's webinar recording. [evalu-ate.org/webinar/august23/](https://evalu-ate.org/webinar/august23/)

**Evaluation Questions Checklist**  
Craft the right evaluation questions for your ATE project with this checklist. [bit.ly/en\\_checklist](https://bit.ly/en_checklist)

**Evaluation Data Matrix Template**  
Organize your evaluation indicators, data sources, analysis, and interpretation with this evaluation data matrix template. [bit.ly/data-matrix](https://bit.ly/data-matrix)

**Communication Plan Checklist**  
Create a clear communication plan to help the project team and evaluator avoid confusion, misunderstanding, or uncertainty with this checklist. [bit.ly/checklist-communication](https://bit.ly/checklist-communication)

**Getting the Most Out of Your Evaluation: Checklist for Using Evaluation Findings**  
Commit to using your evaluation findings for project improvement, dissemination and advocacy, accountability, and planning. [bit.ly/eval-use-checklist](https://bit.ly/eval-use-checklist)

**ATE Proposal Evaluation Plan Template**  
Use this template to structure your evaluation plan for your ATE proposal. [bit.ly/ATE-eval-plan-temp](https://bit.ly/ATE-eval-plan-temp)

This material is based upon work supported by the National Science Foundation under Grants No. 1841783. The content reflects the views of the authors and not necessarily those of NSF.

evalu-ate.org

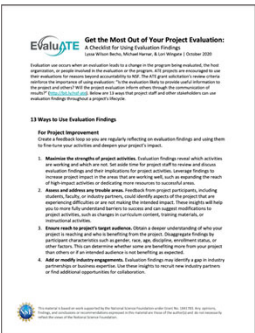
56


Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

# Resources

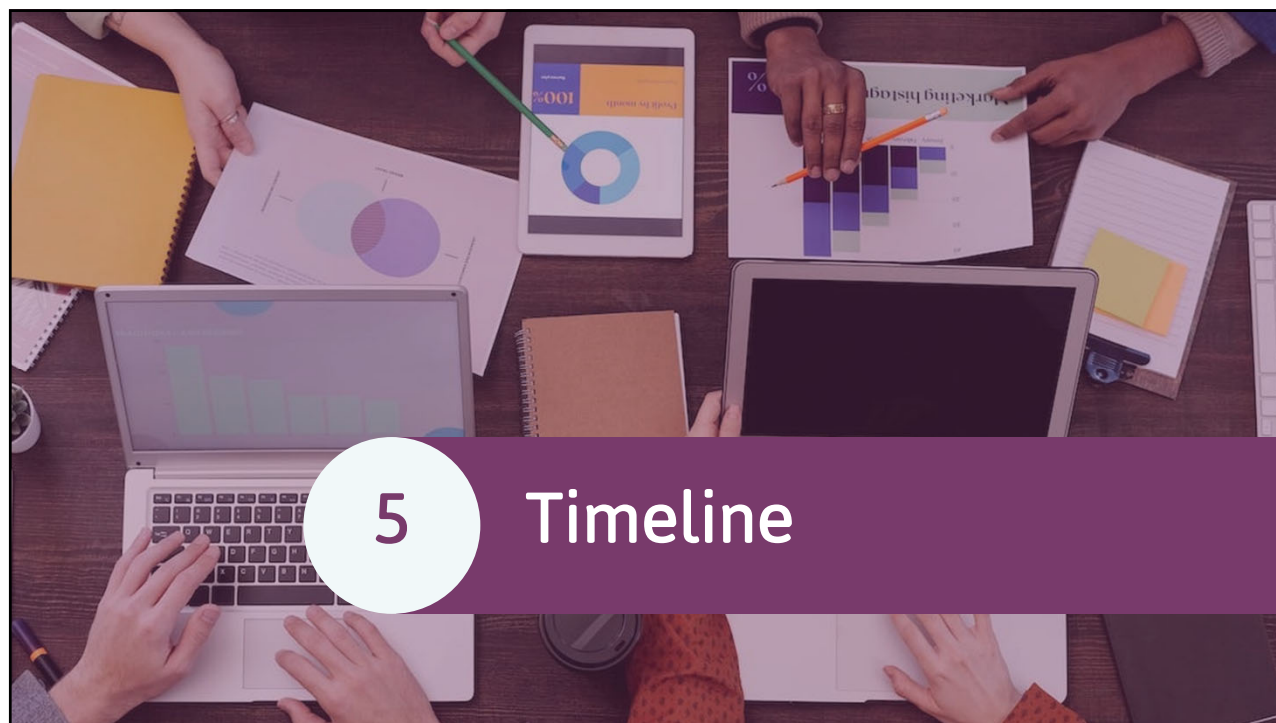
## COMMUNICATION & USE

### Getting the Most Out of Your Evaluation: Checklist for Using Evaluation Findings





57



5

# Timeline

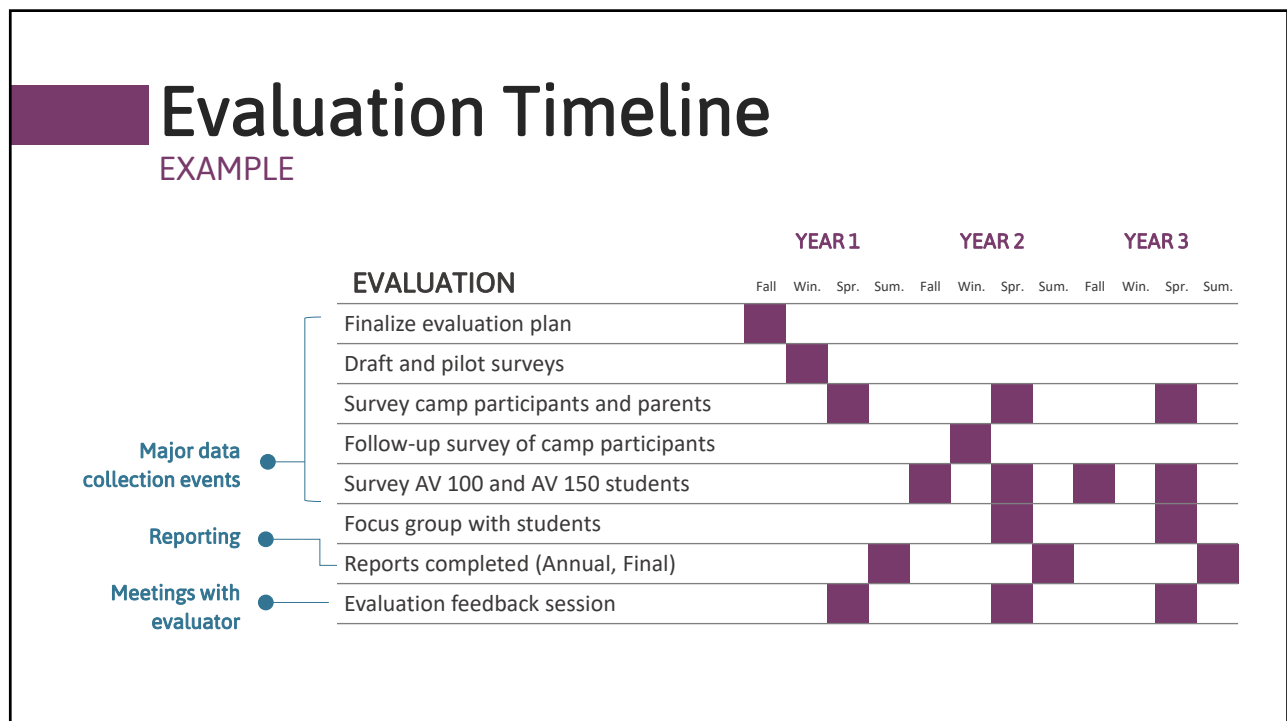


## Timeline

### EVAL PLAN CHECKLIST

- ☐ Identify when **key evaluation activities** will occur in order to produce timely information

59



60

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

# Evaluation Timeline

EXAMPLE

**PROJECT DESCRIPTION | EvaluATE**

**Timeline**  
The timing of key tasks and deliverables is shown in Table 3.

Table 3. Project Timeline (shown in quarter-year increments)

| RESEARCH   | YEAR 1  | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
|--|---|--------|--------|--------|--------|
| Study 1: Exploratory and Stakeholder Validation  | Task design and recruit study participants        |        |        |        |        |
|  | Data collection and analysis                      |        |        |        |        |
| Study 2: Evaluator Recruitment   | Task design and recruit committee members         |        |        |        |        |
|  | Data collection and analysis                      |        |        |        |        |
| Study 3: Strategies for Managing EUD in ATE  | Task design and recruit participants              |        |        |        |        |
|  | Data collection and analysis                      |        |        |        |        |
| Study 4: Evaluation Use in the ATE Program   | Task design and recruit participants              |        |        |        |        |
|  | Survey data collection and analysis               |        |        |        |        |
|  | Site collection and analysis                      |        |        |        |        |
|  | Publication                                       |        |        |        |        |
| <b>TRAINING &amp; TECHNICAL ASSISTANCE</b> (These training-related activities are already funded under current grant through summer 2023, so they are not listed here and expiration of current grant) |   |        |        |        |        |
|  | Conduct one webinar per quarter                   |        |        |        |        |
|  | Conduct TA and job aids                           |        |        |        |        |
|  | Conduct workshop at ATE IT Conference             |        |        |        |        |
|  | Develop guidance materials for members            |        |        |        |        |
|  | Convene coaches for orientation                   |        |        |        |        |
|  | Online coaches                                    |        |        |        |        |
| <b>ATE EVALUATION NETWORK FACILITATION</b>   |   |        |        |        |        |
|  | Lead ATE evaluation to attend ATE IT Conference   |        |        |        |        |
|  | Host networking reception at ATE IT conference    |        |        |        |        |
|  | Send and coordinate ATE evaluation letters        |        |        |        |        |
|  | Host monthly webinars                             |        |        |        |        |
|  | Host biannual ATE Evaluation Summit               |        |        |        |        |
| <b>EVALUATION</b>  |   |        |        |        |        |
|  | Finalize detailed evaluation plan                 |        |        |        |        |
|  | Conduct baseline survey of EvaluATE's audience    |        |        |        |        |
|  | Conduct interviews with coaches and TA recipients |        |        |        |        |
|  | Report completed (LA, survey, report, report)     |        |        |        |        |
| <b>DISSEMINATION</b>   |   |        |        |        |        |
|  | Presentations at conferences                      |        |        |        |        |
|  | Publication quarterly newsletters                 |        |        |        |        |

**Evaluation Plan**  
EvaluATE's outcomes and implementation will be assessed through a combination of external and internal evaluation. The internal component primarily serves accountability and formative evaluation purposes—documenting our process and outputs and answering questions regarding user engagement, satisfaction, and interrelated learning. The external component is more outcome-oriented, addressing questions regarding sustained learning, use, and impact. The external portion of the evaluation will be led by Dr. Laura Ruckel of The Ruckel Group.

**EvaluATE** 11 [www.evalu-ate.org](http://www.evalu-ate.org)

61

# Evaluation Plan

ESSENTIAL ELEMENTS

**PROJECT DESCRIPTION | EvaluATE**

**BROADER IMPACTS OF THE PROPOSED PROJECT**  
The ATE program is focused on tangible broader impacts in terms of making the United States more globally competitive through improved technological education. EvaluATE's purpose is to support ATE program partners to conduct high-quality evaluation that can be used to improve individual projects and the program overall. EvaluATE's expanded work will directly contribute to developing the capacity of institutions to conduct evaluation—within ATE and beyond. Our research on measuring equity, diversity, and inclusion will generate actionable findings that can be applied at institutions to assess program broadened participation is STEM, an NSF priority (NSF, 2018a).

**Logic Model**  
As shown in our logic model (Figure 2), EvaluATE's research on evaluation, training and technical assistance, and evaluation network facilitation activities are oriented toward enhancing the capacity of ATE program community members to conduct (and/or high-quality evaluation in the context of) advancing the goals of the ATE program.

Figure 2. EvaluATE's logic model

| Inputs     | Activities   | Short-term Outcomes  | Mid-term Outcomes   | Long-term Outcomes  |
|------------|--|--|---|---|
| Not Listed | Research on Evaluation<br>Study 1: Evaluation Task Analysis and Frameworks<br>Study 2: Evaluation Frameworks and Tools<br>Study 3: Training and Technical Assistance<br>Study 4: Evaluation Network Facilitation | ATE community members understand the importance of evaluation and the role of evaluators<br>ATE community members have the skills and resources to conduct evaluation<br>ATE community members have the capacity to conduct evaluation | ATE community members have the skills and resources to conduct evaluation<br>ATE community members have the capacity to conduct evaluation<br>ATE community members have the capacity to conduct evaluation | ATE community members have the skills and resources to conduct evaluation<br>ATE community members have the capacity to conduct evaluation<br>ATE community members have the capacity to conduct evaluation |

**Evaluation Plan**  
EvaluATE's outcomes and implementation will be assessed through a combination of external and internal evaluation. The internal component primarily serves accountability and formative evaluation purposes—documenting our process and outputs and answering questions regarding user engagement, satisfaction, and interrelated learning. The external component is more outcome-oriented, addressing questions regarding sustained learning, use, and impact. The external portion of the evaluation will be led by Dr. Laura Ruckel of The Ruckel Group.

**EvaluATE** 11 [www.evalu-ate.org](http://www.evalu-ate.org)

62

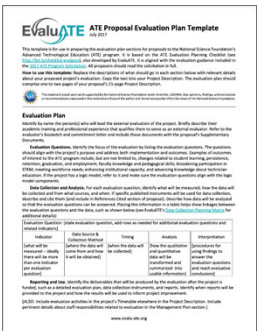
Slides available at:  
[evalu-ate.org/webinar/aug23](http://evalu-ate.org/webinar/aug23)

31

# Resources

## EVALUATION PLAN

### ATE Proposal Evaluation Plan Template



WEBINAR HANDOUT

### Strategies and Insights into Evaluation Plans for NSF ATE Proposals

The slides and recording for this webinar are available at [evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23). Materials are listed in the order they were mentioned during the webinar.

**Evaluation Plan Checklist for ATE Proposals**  
Refer to this checklist to address evaluation in an ATE proposal. [bit.ly/checklist-evalplan](https://bit.ly/checklist-evalplan)

**Evaluator Biographical Sketch Template for NSF Proposals**  
Share this template with your external evaluator to structure their biosketch. [bit.ly/eval-biosketch](https://bit.ly/eval-biosketch)

**Guide to Finding and Selecting an Evaluator**  
Locate and select an external evaluator for your ATE proposal. <https://bit.ly/find-evaluator>

**Evaluator Procurement Process**  
Learn the next steps for procuring an evaluator based on your institutional policies and restrictions. <https://bit.ly/eval-procurement-map>

**Logic Model Template for ATE Projects**  
Create a visual logic model to connect your project's activities and outcomes using this template. [bit.ly/ate-logic](https://bit.ly/ate-logic)

**Next-Level Logic Models for Your ATE Proposal and Beyond: Webinar**  
Learn more about developing a logic model with EvaluATE's webinar recording. [evalu-ate.org/webinar/august23/](https://evalu-ate.org/webinar/august23/)

**Evaluation Questions Checklist**  
Craft the right evaluation questions for your ATE project with this checklist. [bit.ly/eq-checklist](https://bit.ly/eq-checklist)

**Evaluation Data Matrix Template**  
Organize your evaluation indicators, data sources, analysis, and interpretation with this evaluation data matrix template. [bit.ly/data-matrix](https://bit.ly/data-matrix)

**Communication Plan Checklist**  
Create a clear communication plan to help the project team and evaluator avoid confusion, misunderstanding, or uncertainty with this checklist. [bit.ly/checklist-communication](https://bit.ly/checklist-communication)

**Getting the Most Out of Your Evaluation: Checklist for Using Evaluation Findings**  
Commit to using your evaluation findings for project improvement, dissemination and advocacy, accountability, and planning. [bit.ly/eval-use-checklist](https://bit.ly/eval-use-checklist)

**ATE Proposal Evaluation Plan Template**  
Use this template to structure your evaluation plan for your ATE proposal. [bit.ly/ATE-eval-plan-template](https://bit.ly/ATE-eval-plan-template)

This material is based upon work supported by the National Science Foundation under Grants No. 1841783. The content reflects the views of the authors and not necessarily those of NSF.

evalu-ate.org

63



64

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)




32





65

## Beyond the Evaluation Plan


-  **Results from Prior NSF Support**
  - “This subsection must contain specific outcomes and results including metrics to demonstrate the impact of the project activities.”
-  **Intellectual Merit**  
advancement of knowledge
-  **Broader Impacts**  
benefit to society

66


Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)



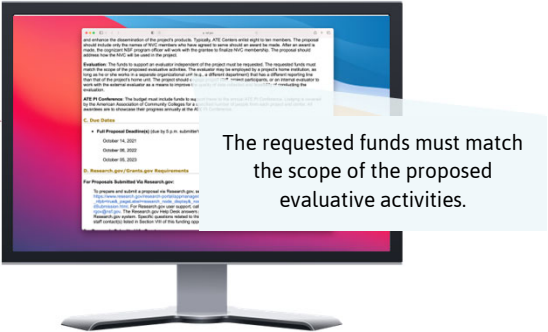
# Beyond the Evaluation Plan



Results from Prior NSF Support




Budget and Budget Justification




The requested funds must match the scope of the proposed evaluative activities.

67

# Beyond the Evaluation Plan



Results from Prior NSF Support



Budget and Budget Justification


**According to PAPPG**


- ☐ Identify hourly rate of pay for evaluator
- ☐ Justify time required for evaluator
- ☐ Outline their main tasks and deliverables


68

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

## Beyond the Evaluation Plan


 Results from Prior NSF Support

 Budget and Budget Justification

 Data Management Plan


### Requirements


- ☐ Types of **data** and other materials to be produced
- ☐ Format of the **data**
- ☐ Policies for accessing and sharing **data**
- ☐ Policies for use of **data** by others
- ☐ Plans for archiving **data** for preserving access


 Include evaluation data


69

## Beyond the Evaluation Plan

 Results from Prior NSF Support

 Budget and Budget Justification

 Data Management Plan

 References

### Include references to evaluation literature

### Justify evaluation approach

### Justify use of instruments and methods

#### REFERENCES

American Society of Higher Education (ASHE). (2011). Special issue: Racial and ethnic minority students' success in STEM education. *ASHE Higher Education Report*, 36(1), 1-68. Gardner, K. E., Schick, N., & Brown, M. M. (2013). The use of workforce assessment as a component of career and technical education program evaluation. *Career and Technical Education Research*, 36(2), 168-188.

Boyer, A. S. (2017). Lessons learned using a values-engaged approach to attend to culture, diversity, and equity in a STEM program evaluation. *Evaluation and Program Planning*, 64, 33-43.

Chen, C. K. (2009). Case assessment of adult learners with implications for online learning strategies. *Association of Computing in Education Journal*, 16(2), 137-139.

DeBruin, L. M. (2015). Evaluating skill acquisition: Linking educational experiences to competencies. *American Journal of Evaluation*, 36(2), 255-268.

Fitzpatrick, J. L., Sanders, J. R., & Worthen, B. R. (2004). *Program evaluation: Alternative approaches and practical guidelines* (2nd ed.). New York: Longman.

Fleischer, D. N., & Christie, C. A. (2009). Evaluation use: Results from a survey of U.S. American Evaluation Association members. *American Journal of Evaluation*, 30(2), 159-175.

Galperin, N., & Aram, T. (2016). Evaluating training needs and competencies: A gap analysis. *American Journal of Evaluation*, 36(1), 84-100.

Gavetti, A. (2010). *The checklist mandate: How to get things right*. New York: Metropolitan Books.

Gooding, T. (1988). *Evaluating professional development*. Thousand Oaks, CA: Sage.

Hopewell, L. L. (2016). *Cherry methods*. New York, NY: Oxford University Press.

Johnson, K., Greenwood, L. O., Tsai, S. A., King, J. A., Lawrence, E., & Volkow, B. (2009). Research on evaluation use: A review of the empirical literature from 1980 to 2007. *American Journal of Evaluation*, 30(3), 397-410.

Kirkpatrick, K. E. (2003). Reconceptualizing evaluation use: An integrated theory of influence. *New Directions for Evaluation*, 88, 9-23.

Kirkpatrick, J. D., & Kirkpatrick, W. K. (2016). *Kirkpatrick's four levels of training evaluation*. Alexandria, VA: ASTD.

Kirwan, M. (1994). *Analogy in action: Applying modern principles of adult learning*. San Francisco, CA: Jossey-Bass.

Kirwan, M., Hillman, E. F., & Swanson, R. A. (2007). *The adult learner: The mythic class in adult education and human resource development* (9th ed.). Burlington, MA: Elsevier.

Kup-Shulman, K. (2015). Credentialled evaluator designation program: The Canadian experience. *New Directions for Evaluation*, 155, 71-85.

Labin, S. N. (2014). Developing common measures in evaluation capacity building: An interactive science and practice process. *American Journal of Evaluation*, 35(1), 107-125.

Labin, S. N., Chaffey, J. L., Rogers, D. C., Vandenbrouck, A., & Lomax, C. A. (2012). A research synthesis of the evaluation capacity building literature. *American Journal of Evaluation*, 33(1), 367-386.

LaVelle, J. M., & Davidson, S. I. (2015). The state of preparing evaluators. *New Directions for Evaluation*, 155, 39-62.

70

Slides available at:  
evalu-ate.org/webinar/aug23

35


# Resources

## WHAT'S MY NEXT STEP?

Find an evaluator 1

Create a project logic model 2

Review requirements of evaluation plan 3



**Strategies and Insights into Evaluation Plans for NSF ATE Proposals**  
The slides and recording for this webinar are available at [evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23). Materials are listed in the order they were mentioned during the webinar.

**Evaluation Plan Checklist for ATE Proposals**  
Refer to this checklist to address evaluation in an ATE proposal. [bit.ly/checklist-evalplan](https://bit.ly/checklist-evalplan)

**Evaluator Biographical Sketch Template for NSF Proposals**  
Share this template with your external evaluator to structure their biosketch. [bit.ly/eval-biosketch](https://bit.ly/eval-biosketch)

**Guide to Finding and Selecting an Evaluator**  
Locate and select an external evaluator for your ATE proposal. <https://bit.ly/find-evaluator>

**Evaluator Procurement Process**  
Learn the next steps for procuring an evaluator based on your institutional policies and restrictions. <https://bit.ly/eval-procurement-map>

**Logic Model Template for ATE Projects**  
Create a visual logic model to connect your project's activities and outcomes using this template. [bit.ly/ate-logic](https://bit.ly/ate-logic)

**Next-Level Logic Models for Your ATE Proposal and Beyond: Webinar**  
Learn more about developing a logic model with EvaluATE's webinar recording. [evalu-ate.org/webinar/august23/](https://evalu-ate.org/webinar/august23/)

**Evaluation Questions Checklist**  
Craft the right evaluation questions for your ATE project with this checklist. [bit.ly/eq-checklist](https://bit.ly/eq-checklist)


**Evaluation Data Matrix Template**  
Organize your evaluation indicators, data sources, analysis, and interpretation with this evaluation data matrix template. [bit.ly/data-matrix](https://bit.ly/data-matrix)

**Communication Plan Checklist**  
Create a clear communication plan to help the project team and evaluator avoid confusion, misunderstanding, or uncertainty with this checklist. [bit.ly/checklist-communication](https://bit.ly/checklist-communication)

**Getting the Most Out of Your Evaluation: Checklist for Using Evaluation Findings**  
Commit to using your evaluation findings for project improvement, dissemination and advocacy, accountability, and planning. [bit.ly/eval-use-checklist](https://bit.ly/eval-use-checklist)

**ATE Proposal Evaluation Plan Template**  
Use this template to structure your evaluation plan for your ATE proposal. [bit.ly/ATE-eval-plan-template](https://bit.ly/ATE-eval-plan-template)

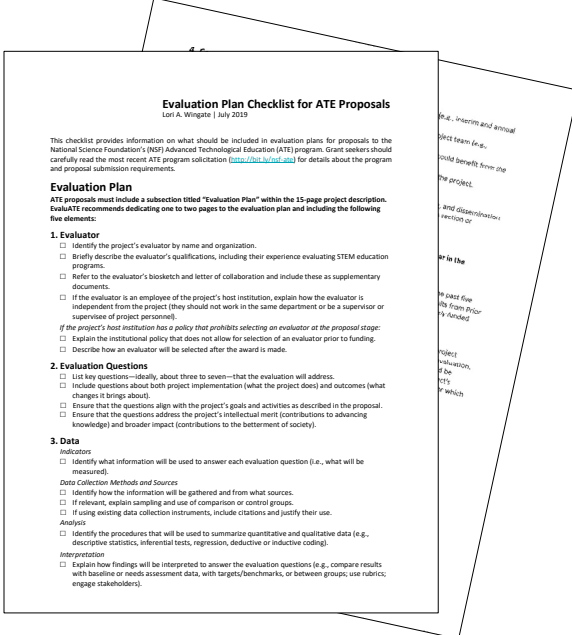
This material is based upon work supported by the National Science Foundation under Grants No. 1847253. The content reflects the views of the authors and not necessarily those of NSF.

evalu-ate.org 

71

# Resources

## EVAL PLAN CHECKLIST



**Evaluation Plan Checklist for ATE Proposals**  
Lori A. Wingate | July 2019

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 (<https://www.nsf.gov/pubs/2021/nsf21014.pdf>) for details about the program and proposal submission requirements.

**Evaluation Plan**  
ATE 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**
  - List key questions—ideally, about three to seven—that the evaluation will address.
  - Include questions about both project implementation (what the project does) and outcomes (what changes it brings about).
  - Ensure that the questions align with the project's goals and activities as described in the proposal.
  - Ensure that the questions address the project's intellectual merit (contributions to advancing knowledge) and broader impact (contributions to the betterment of society).
- 3. Data**
  - Identify what information will be used to answer each evaluation question (i.e., what will be measured).
  - Data Collection: Methods and Sources
    - Identify how the information will be gathered and from what sources.
    - If relevant, explain sampling and use of comparison or control groups.
    - If using existing data collection instruments, include citations and justify their use.
  - Analysis
    - Identify the procedures that will be used to summarize quantitative and qualitative data (e.g., descriptive statistics, inferential tests, regression, deductive or inductive coding).
  - Interpretation
    - Explain how findings will be interpreted to answer the evaluation questions (e.g., compare results with baseline or needs assessment data, with targets/benchmarks, or between groups; use rubrics; engage stakeholders).

72

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)

# Resources

ATE EVALUATION COACHING  
[evalu-ate.org/coaching](https://evalu-ate.org/coaching)



Amy Germuth



Lola Adedokun



Keith Sturgis

73

# QUESTION BREAK



Use chat window

74

Slides available at:  
[evalu-ate.org/webinar/aug23](https://evalu-ate.org/webinar/aug23)



# CONNECT WITH US

WE'RE HERE TO SUPPORT YOU!



 [evalu-ate.org](https://evalu-ate.org)  
[info@evalu-ate.org](mailto:info@evalu-ate.org)

 Call us  
269-387-5920

75