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INTRODUCTIONS



Mike Lesiecki



Lori Wingate







BEHIND THE SCENES



Emma Perk



Sharon Gusky



Janet Pinhorn



Shannon Payne









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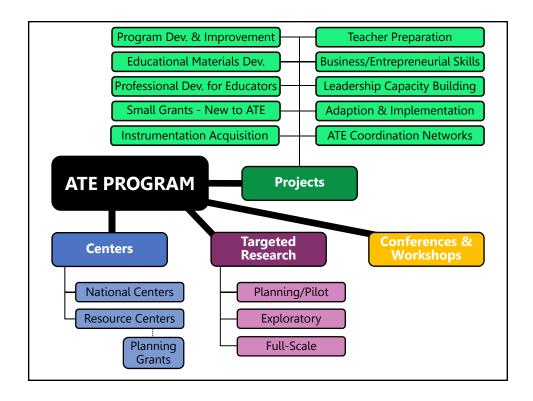
This material is based upon work supported by the National Science Foundation under grant number 1600992.

Any opinions, findings, and conclusions or recommendations expressed in this material are those of the presenters and do not necessarily reflect the views of NSF.











EVALUATION

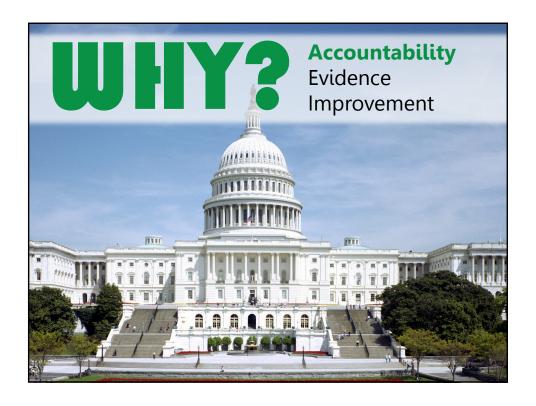
the determination of something's quality, value, or importance

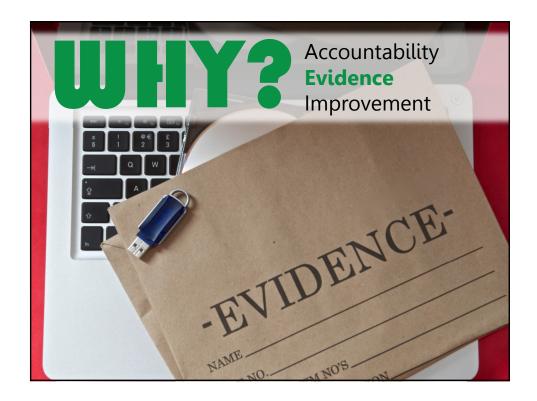
PROJECT EVALUATION

the **systematic** determination of a **project's** quality, value, or importance **based on evidence**



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Evaluation Guidance in 2017 Solicitation

Evaluation: All ATE-funded work must be evaluated, with the exception of planning grants for centers. Project descriptions must include a subsection titled "Evaluation Plan" that includes the following information...





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Merit Review Criteria

Intellectual Merit



potential to advance knowledge

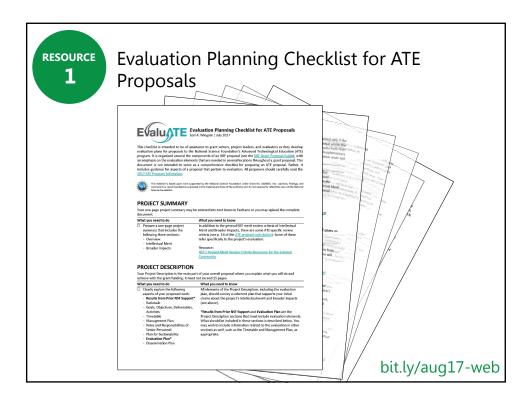
Broader Impacts

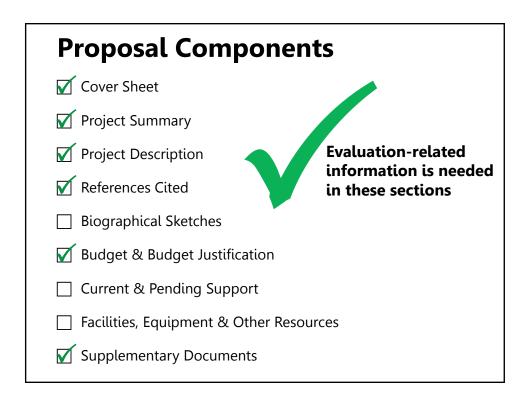


potential to benefit society



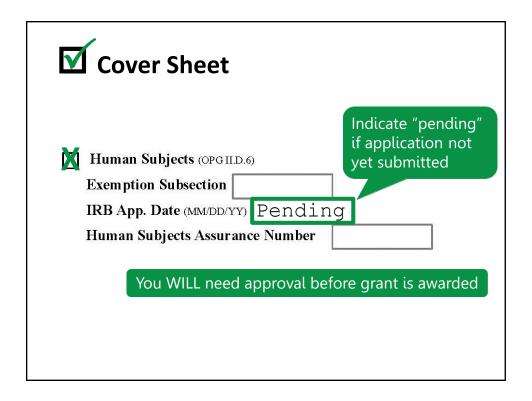






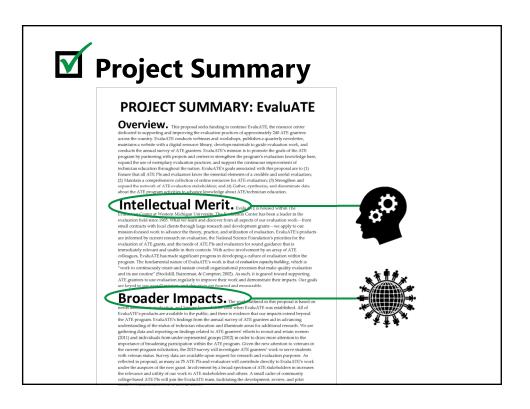


Proposal Components
✓ Project Summary
✓ Project Description
✓ References Cited
☐ Biographical Sketches
☑ Budget & Budget Justification
☐ Current & Pending Support
☐ Facilities, Equipment & Other Resources
✓ Supplementary Documents





Proposal Components
☑ Cover Sheet
Project Summary
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Proposal Components Cover Sheet Project Summary Project Description Results from Prior NSF Support Rationale Goals, Objectives, Deliverables, Activities Timetable Management Plan Roles & Responsibilities of Senior Personnel Plan for Sustainability Evaluation Plan Dissemination Plan





specific outcomes and results including metrics to demonstrate the impact of the project activities



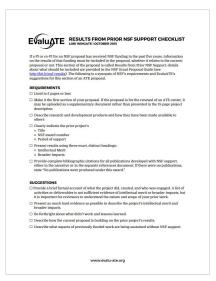
Intellectual Merit



Broader Impacts



NSF Prior Support Checklist

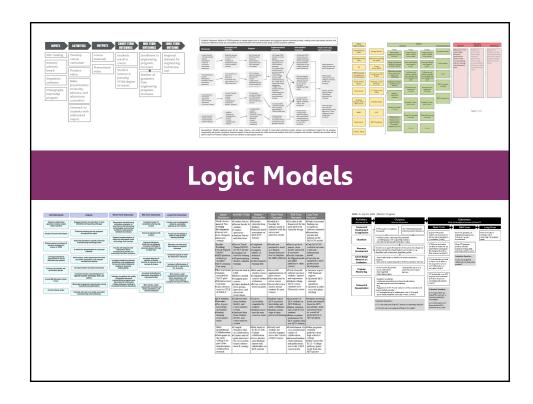


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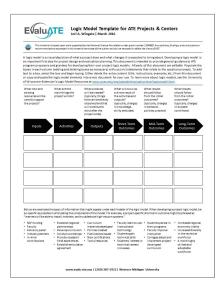
- ✓ Useful for depicting overall project design
 - ✓ Using for evaluation planning

Logic Models

- ! Not required by NSF
- ! Should not exceed more than one page
- ! Must not be submitted as supplemental document

RESOURCE 3

Logic Model Template for ATE Projects



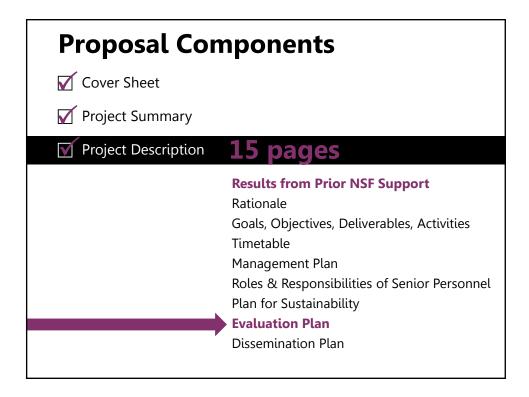
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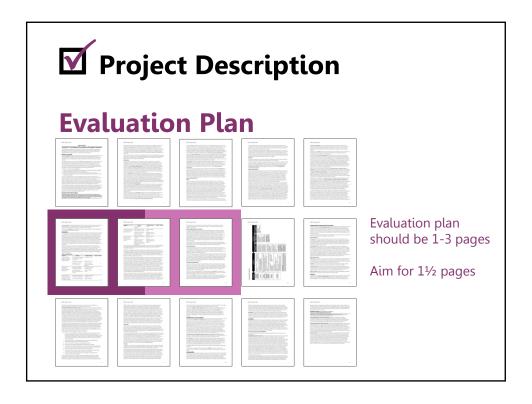
recording, slides, and handout

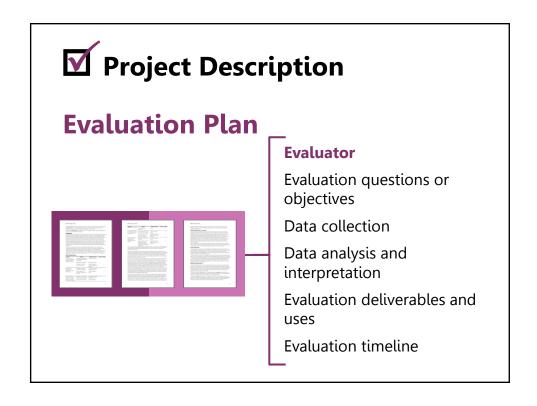
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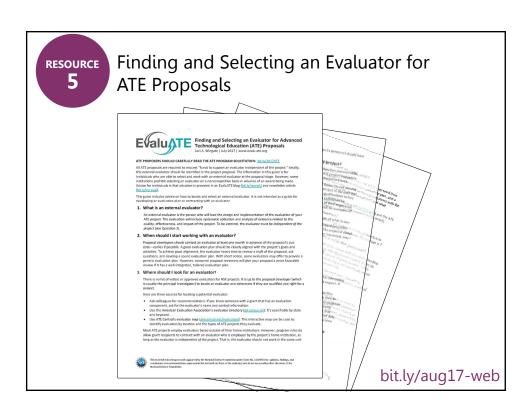






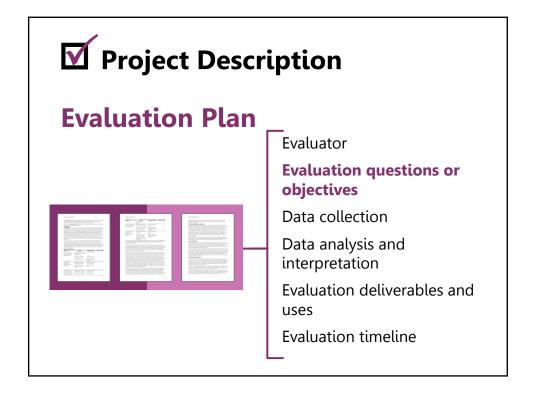
The funds to support an evaluator independent of the project or center must be requested...







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Evaluation Questions are

overarching questions about the project's quality, impact, or effectiveness that the evaluation will answer based on evidence





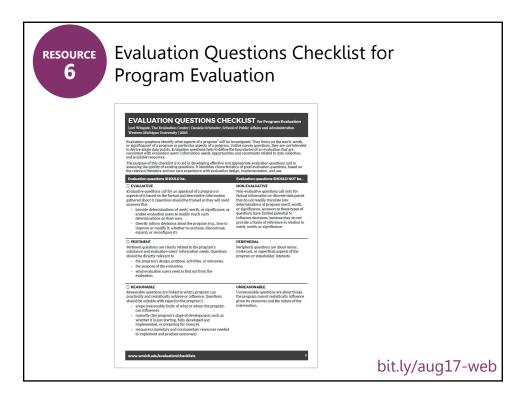
EVALUATION QUESTIONS

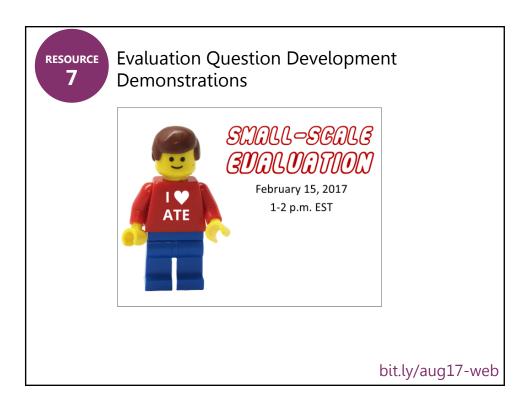
- To what degree are the new and improved courses aligned with renewable energy industry needs?
- 2. How successful are the project's marketing activities in reaching the intended audience?
- 3. To what extent do students utilize the career pathways established by the project?
- 4. To what extent do students gain the competencies needed by energy industry employers?
- 5. To what extent is the project increasing the supply of qualified technicians to local renewable energy employers?

- Process

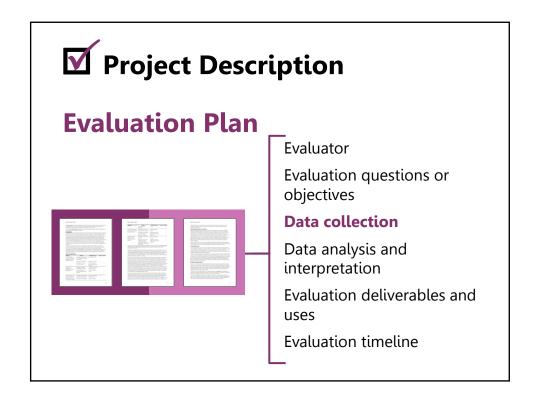
Outcome











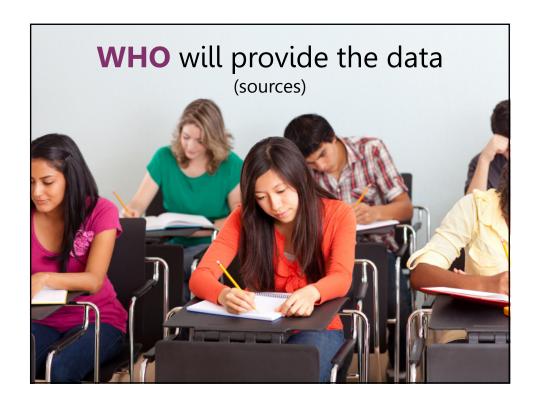


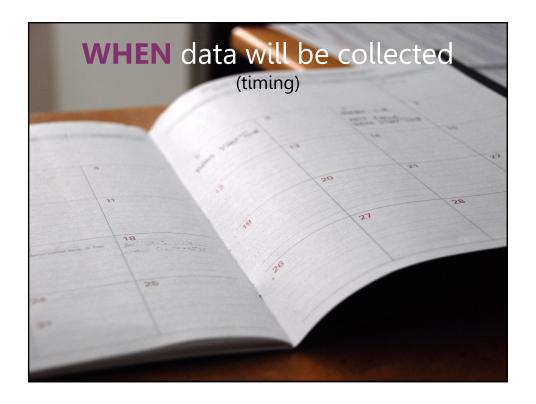














Data Collection Plan Excerpt: Example 1

Program faculty will administer a survey of dual-enrolled students at the end of each semester to learn about their intent to pursue wind energy technology degrees. The primarily quantitative survey data will be augmented by qualitative data about factors that influence students' education choices obtained through focus groups with dual-enrolled students at the end of each spring semester.

READ

What How Who When will be measured?

Program faculty will administer a survey of dual-enrolled students at the end of each semester to learn about their intent to pursue wind energy technology degrees. The primarily quantitative survey data will be augmented by qualitative data about factors that influence students' education choices obtained through focus groups with dual-enrolled students at the end of each spring semester.

WRITE IN CHAT BOX



What How Who When will data be collected?

Program faculty will administer a survey of dual-enrolled students at the end of each semester to learn about their intent to pursue wind energy technology degrees. The primarily quantitative survey data will be augmented by qualitative data about factors that influence students' education choices obtained through focus groups with dual-enrolled students at the end of each spring semester.

WRITE IN CHAT BOX

What How Who When will provide the data?

Program faculty will administer a survey of dual-enrolled students at the end of each semester to learn about their intent to pursue wind energy technology degrees. The primarily quantitative survey data will be augmented by qualitative data about factors that influence students' education choices obtained through focus groups with dual-enrolled students at the end of each spring semester.

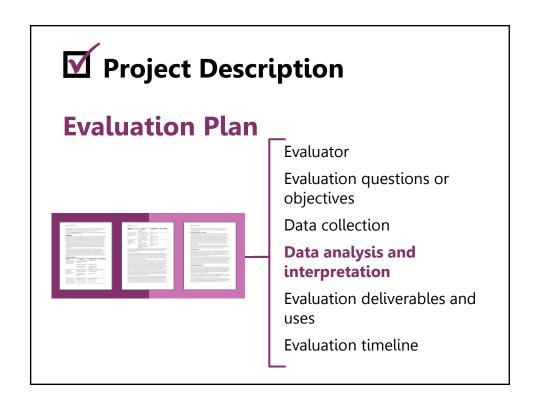
WRITE IN CHAT BOX



What How Who When will the data be obtained?

Program faculty will administer a survey of dual-enrolled students at the end of each semester to learn about their intent to pursue wind energy technology degrees. The primarily quantitative survey data will be augmented by qualitative data about factors that influence students' education choices obtained through focus groups with dual-enrolled students at the end of each spring semester.

WRITE IN CHAT BOX





Analysis



Transform raw data into usable information

Interpretation

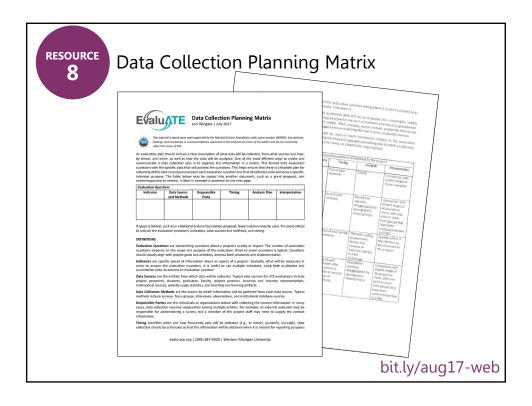


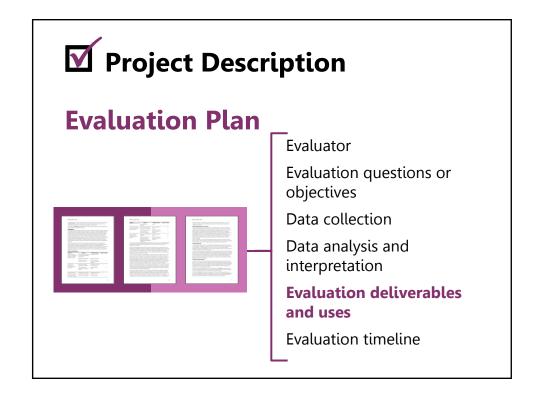
Use findings to answer the evaluation questions

Data Collection Planning Matrix

Evaluation Question: To what extent are students using education pathways established by the project? **Indicator Data Source Analysis** Interpretation Timing and Methods Comparison with project target of 60 percent or more, with one-third or more from groups that have been End of each semester Percentage of dual-Paper-and-pencil survey of Descriptive statistics, disaggregated by demographic characteristics enrolled high school dual-enrolled students students who intend to pursue wind technology degrees or certificates underrepresented in STEM Identify which, if any, factors can be influenced Thematic coding to determine factors that Students' perceptions of Focus group with students End of each spring what affects their education or career semester increase or suppress by the program interest in wind technology Descriptive statistics disaggregated by Comparison with project target of 40 percent or more, with one-third or Percentage of students Query of institutional End of each semester after who began as dualdatabase first cohort is eligible to enrolled who graduate receive degree or demographic more from groups that have been underrepresented in STEM characteristics with wind technology degrees or certificates certificate









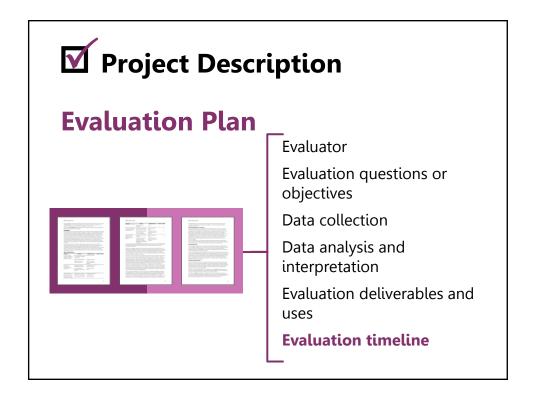
Evaluation Deliverables and Uses



Types of reports or other products that will be created



How will the results will be used





Evaluation Timeline

Show how evaluation will produce timely information and be integrated into the overall project



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ATE-Specific Review Criteria Related to Evaluation:

Is the evaluation plan clearly tied to the project outcomes?

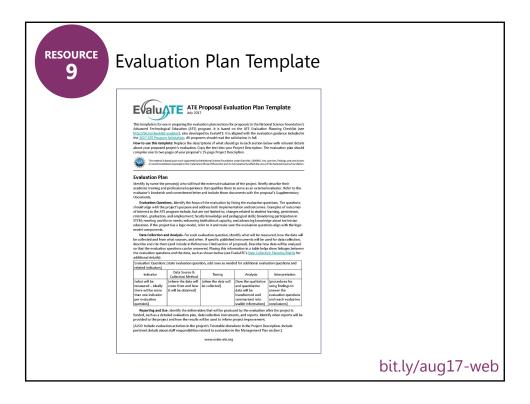
Is the evaluation likely to provide useful information to the project and others?

Will the project evaluation inform others through the communication of results?



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✓ Supplementary Documents

▼ References Cited

Include references to **pertinent and current** evaluation literature in your evaluation plan section

References

Bartlett, K. R., Schleif, N., & Bowen, M. M. (in press). The use of workforce asset career and technical education program evaluation. *Career and Technical Edu*

Frechtling, J. (2010). The 2010 user-friendly guide for project evaluation. Retrieved www.westat.com/Westat/pdf/projects/2010UFHB.pdf

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Guskey, T. (1999). Evaluating professional development. Thousand Oaks, CA: Sage

Hales, B., Terblanche, M., Fowler, R., & Sibbald, W. (2008). Development of med improved quality of patient care. *International Journal for Quality in Health Co.*

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Parsons, B., & Jessup, P. (2011). EvaluATE needs assessment phase 2 internal repo Available upon request via <u>www.evalu-ate.org</u>].

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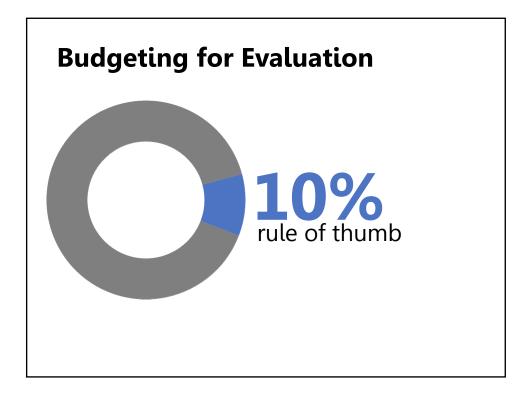
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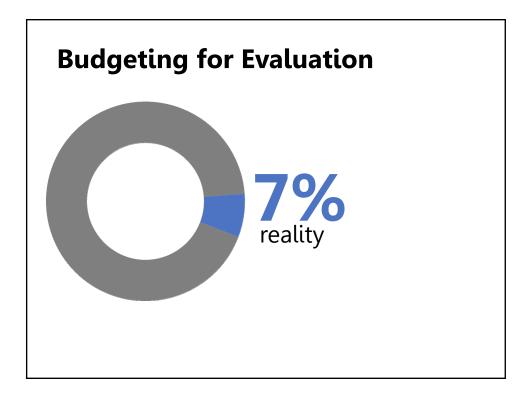
☑ Budget & Budget Justification

The **funds** to support an evaluator independent of the project or center must be requested. The requested funds **must match the scope** of the proposed evaluative activities.











Project Budget

Category	Cost	
Salaries & Fringe Benefits	\$350,000	Total direct costs
Equipment	\$12,000	
Materials	\$20,000	
Travel	\$7,200	=\$389,200
Other – Evaluation Consultant	\$38,920	
Modified Total Direct Costs	\$428,120	
Indirect Costs (30%)	\$128,436	
TOTAL PROJECT COST	\$556,556	

Project Budget

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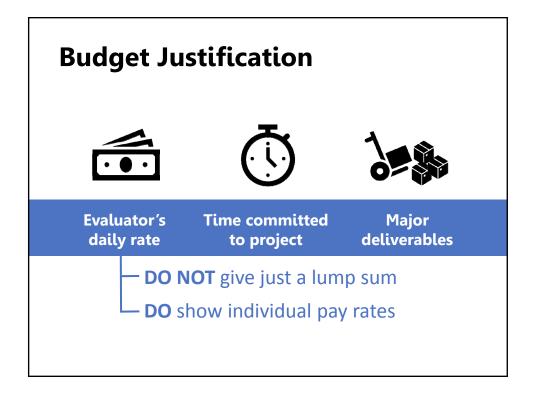


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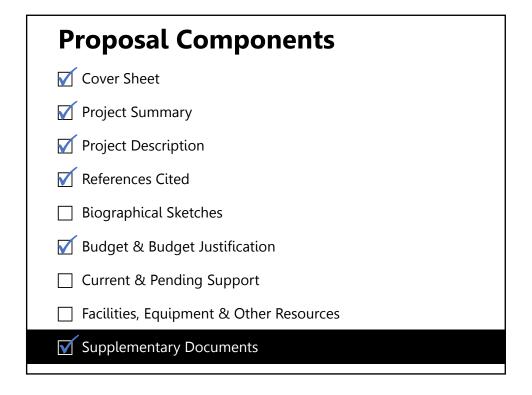
Project Budget Category Cost Salaries & Fringe Benefits \$350,000 Equipment \$12,000 Materials \$20,000 Travel \$7,200 \$38,920 Other – Evaluation Consultant **Modified Total Direct Costs** \$428,120 Indirect Costs (30%) \$128,436 Indirect costs TOTAL PROJECT COST \$556,556



Project Budget			
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TOTAL PROJECT COST	\$556,556	Grand total	







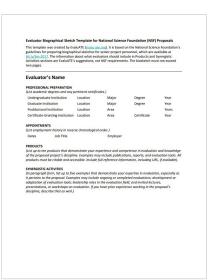
Supplementary Documents

- List of individuals who will be compensated by the grant (including evaluator)
- Evaluator's commitment letter
- Evaluator's biosketch





Evaluator Biographical Sketch Template for NSF Proposals



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Supplementary Documents

- List of individuals who will be compensated by the grant (including evaluator)
- Evaluator's commitment letter
- Evaluator's biosketch
- Data Management Plan



■ Supplementary Documents

Data Management Plans must describe:

- 1. Types of data
- 2. Data format and content standards
- 3. Access and sharing policies
- 4. Privacy, confidentiality provisions
- 5. Reuse and redistribution policies
- 6. Archiving and data preservation plans



Project Summary Project Description References Cited Biographical Sketches Biographical Sketches Budget & Budget Justification Current & Pending Support Current & Pending Support Current & Pending Support Suppo



NEXT STEPS!



Read the ATE program solicitation

Find an evaluator to work with, if allowed by your institution

Review resources recommended in this webinar

GOOD WCK!



