

Overview

This survey's main purposes are to (1) collect information about the National Science Foundation's Advanced Technological Education (ATE) program characteristics, activities, and impacts; (2) help guide projects and centers in their activities; and (3) collect information that will guide possible studies on specific topics and issues. ATE projects and centers can use the survey results to learn about the activities reported by other ATE grantees and for their own information needs. Findings are used by NSF program staff to prepare their annual reports and make program decisions.

Some of the data collected from this survey will be shared in selected ways to further ATE collaboration and research efforts. We encourage you to review the Confidentiality section of the Survey FAQs at www.eval-ate.org/annual_survey for details about data protections and uses.

The survey period is February 15–March 15, 2011. We recommend that you review this document in its entirety before responding to the online version so that you will have all the necessary information at hand to answer the questions. The survey is Web-based; access information will be e-mailed to principal investigators at the start of the survey period.

Additional information about the survey is available at www.eval-ate.org/annual_survey. Questions should be directed to Lori Wingate at (269) 387-5895 or eval-ate@wmich.edu.

Thank you for participating in this survey.

General Instructions

1. Your responses should address the calendar year: **January 1–December 31, 2010**.
2. Sections 1-3 are required for all respondents, including grantees in their first year. These sections are about grantee characteristics, collaboration, and organizational practices.
3. Sections 4-6 are about materials development, professional development, and program improvement, respectively. At the start of each of these sections, you are asked to indicate whether your grant activities in that area met the threshold (i.e., if in the target year you allocated EITHER 30 percent or more of your project/center's direct costs OR at least \$100,000 to the activity in question) or whether you do not meet the threshold, but the activities nevertheless are a significant portion of your work that you want reflected.
4. Section 7 includes questions that are being asking on a one-time or rotational basis. We ask that all respondents complete this brief section.

Section 1: Background Information

1. Award category:
 - Project
 - Center
 - Targeted research
 - Small grants for colleges new to the ATE program
2. Begin date for current award: _____ / _____ / _____ (MM/DD/YYYY)
3. End date for current award: _____ / _____ / _____ (MM/DD/YYYY)
4. Which of the following is the grantee institution?
 - 4-year college/university
 - 2-year college or 2-year college system
 - K-12 school or school system
 - Nonprofit organization
 - Association/society
 - Other (describe): _____
5. Your office address: _____
6. Phone: (_____) _____ - _____
7. Project/center Web site: http:// _____
8.
 - a. Total funds awarded in the current grant for this project/center: \$ _____
 - b. Annual budget for 2010: \$ _____
 - c. Estimate the percentage of your annual budget (8b), including salaries, allocated to the following activities. Percentages should total 100.
 - _____ % Materials development for national dissemination
 - _____ % Professional development including teacher preparation
 - _____ % Program improvement
 - _____ % Targeted research
 - _____ % Evaluation (internal and external)
 - _____ % Advisory committees
 - _____ % Institutional indirect costs
 - _____ % Other (specify): _____
 - 100 % Total 2010 project/center costs

9. What percentage of the annual budget (8b) was targeted to serve individuals at each type of institution? Estimate to the nearest 10 percent. Percentages should total 100.

_____ % 4-year college/university

_____ % 2-year college

_____ % Association/society

_____ % Secondary school

_____ % Business/industry

_____ % Other (specify): _____

100 % Total

10. Choose one of the following options to describe the major emphasis of your project/center.

a. Advanced Manufacturing Technologies

Automotive manufacturing

General manufacturing

Additive manufacturing

b. Agricultural and Environmental Technologies

Agricultural and natural resources

Energy production

Energy use (or conservation)

c. Biotechnology and Chemical Processes

Biotechnology

Chemical processes

d. Engineering Technologies

Optics

Electronics and controls

Marine technologies

Space technologies

e. Information, Geospatial, and Security Technologies

Information and communications technologies

Geospatial technologies

Security, information assurance and forensics

f. Learning, Evaluation, and Research

Evaluation

Research

Learning

g. Micro and Nanotechnologies

Micro and nanotechnologies

h. Recruitment

Of underrepresented groups

Into specific programs

i. Core Courses

Core courses

i. Technology Teacher Preparation

Technology teacher preparation

k. Other

Other (specify): _____

11. The following statements (a-h) have been made by other ATE PIs about the sustainability of their project or center or aspects of it. Please indicate the extent to which you Agree or Disagree with each one.

Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	N/A
a. Changes made in our technological education program will keep going after our current grant ends.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. It is doubtful that the relationships we have established with our various partners will continue after our ATE grant has ended.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. The materials we have developed are seldom used by other colleges for technician preparation programs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. The teaching methods adapted by faculty as part of our ATE project will continue to be used after the grant ends.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	N/A
e. Very few of the graduates prepared under our grant are employed as technicians.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Our ATE grant experience has caused our administration to encourage other faculty to seek external funding to address workforce needs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. We will be able to keep our project/center going by obtaining revenue income for specific education services.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Student interest in technology has increased because of our ATE grant.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If your project/center expended more than 5 percent of its funds on research (not including evaluation) in 2010, answer 12a & b below.

12a. What topics were addressed by your research?

12b. If a description or findings of your research efforts are publicly available, provide reference information for that work or a URL that can be shared with other projects/centers:

ATE-Supported Instruction

Respond to questions 13-16 if your project/center provided science, technology, engineering, or mathematics instruction in 2010. These items do NOT pertain to professional development provided by your project/center to educators, which is addressed in Section 5.

If you conducted contract training, report the numbers for those students separately. Do not include contract training numbers in the education-level figures.

	Education Level of Participating Students				Contract Training
	Secondary	Associate	Baccalaureate	Post Baccalaureate	
13. Total number of locations where the ATE-supported programs were offered					
14. Total number of individual students who took at least 1 course in 1 of your ATE-supported programs (if a student took more than 1 course, count that person only once)					

15. Based on the total number of students reported in **Question 14**, indicate the number of students in each of the following demographic categories.

	Education Level of Participating Students				Contract Training
	Secondary	Associate	Baccalaureate	Post Baccalaureate	
a. Male					
b. Female					
c. Hispanic/Latino					
d. American Indian or Alaska Native					
e. Asian					
f. Black or African American					
g. Native Hawaiian or other Pacific Islander					

	Education Level of Participating Students				Contract Training (do not include in education-level figures)
	Secondary	Associate	Baccalaureate	Post Baccalaureate	
h. Multiracial					
i. White Non-Hispanic/Latino					
j. Students requesting accommodation under the Americans with Disabilities Act					

Respond to Questions 16 only if your ATE project/center provided a *degree or certification program*.

16. Indicate the number of students across all of your **ATE-funded degree or certification programs** met the following conditions in 2010.

Student Status	Education Level of Students			
	Secondary	Associate	Baccalaureate	Post Baccalaureate
a. Completed the specified program				
Of those that completed the program, how many...				
1. started or continued employment as a technician				
2. continued STEM education				
3. both (continued STEM education AND started or continued technician employment)				
4. neither (did not continue STEM education or start or continue employment as a technician)				

Student Status	Education Level of Students			
	Secondary	Associate	Baccalaureate	Post Baccalaureate
b. Left the program prior to completion and is not expected to return to complete (e.g., dropped out, changed majors, and so on)				
Of those that left the program prior to completion, how many...				
1. started or continued employment as a technician				
2. continued STEM education				
3. both (continued STEM education AND started or continued technician employment)				
4. neither (did not continue STEM education or start or continue employment as a technician)				
5. No information is available				
c. Students remaining in the program (i.e., did not complete or leave the program in 2010).				

Articulation Agreements

This section addresses articulation agreements for students preparing to be technicians or teachers.

Articulation agreements are defined as specific agreements between two or more institutions that allow students who complete an education program or series of courses to matriculate to a higher level of education at specified institutions.

Matriculation may occur in a sequential or concurrent fashion. Sequential matriculation occurs when a student completes the program at the lower level and then begins taking courses at the higher level institution. Concurrent matriculation occurs when the student is enrolled simultaneously at both institutions.

17. Was developing articulation agreements part of your project/center activities in 2010?

- Yes
- No (If NO, you are now finished with this section)

18. Report the number of articulation agreements, institutions, and students associated with each education level.

	Education Level	
	High school to 2-year college	2-year college to 4-year college
a. Total number of articulation agreements <u>developed</u> in 2010		
b. Total number of articulation agreements <u>in place</u> in 2010 (sequential and concurrent)		
c. Number of <u>institutions</u> involved in all the agreements		
d. Number of <u>students</u> that articulated in 2010 (enrolled at the higher education level under the terms of an articulation agreement)		

Section 2: Organizational Practices

Workforce Needs Assessment

- 1 Did your project/center conduct a workforce needs assessment in 2010?
 - Yes
 - No (If NO, skip to Question 3)

2. Mark the focus of the workforce needs assessment your project/center has carried out. Check all that apply.

Type of Needs Assessment	Focus		
	Local	Regional	National
a. Review of reports/studies written by others (public agencies, specific industry groups, and so on)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Gathered or obtained workforce data from business/industry or other constituent group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Advisory Committees

3. Only committees focused specifically on ATE-funded work should be considered when answering questions 3a-f.

	Type of Committee			
	National Visiting Committee	National Advisory Board	Regional Committee	Local Committee
a. What percentage of your annual budget was allocated for this committee's work?				
b. What percentage of the committee's work was unpaid?				
c. How many times did committee members meet face-to-face?				
d. How many times did committee members meet via video or teleconference?				
e. How many times per year did you consult with the committee members outside of the advisory meeting(s)?				
f. How many times did you provide written project/center updates to the committee?				

Answer questions 4 and 5 only if you had a *National Visiting Committee (NVC)* in 2010.

4. Check those activities performed by your NVC in 2010.

- Provided advice to the project/center
- Provided written evaluative feedback to the project/center
- Provided written evaluative feedback to NSF
- Advocated for the project/center, aside from communicating with NSF
- Other (specify): _____

Evaluation

5. Select the type of evaluator(s) used by your project/center (check all that apply).

- We do not have an evaluator, either internal or external (If you check this response, skip to question 10).
- Evaluator **external to project/center and institution** (i.e., hired specifically to evaluate this grant)
- Evaluator **external to project/center, but internal to institution** (i.e., hired specifically to evaluate this grant)
- Internal evaluator (i.e., is a member of your staff)

6. a. Do you have a current, written evaluation plan for your project/center?

- Yes
- No

b. If your evaluation plan is posted on the Web, provide its URL.

http:// _____

7. What type of report did you receive from your evaluator in 2010? (check all that apply)

- Written
- Oral
- None (If NONE, skip to Question 10)

8. How has your project/center used the information provided in the report(s)? (check all that apply)

- To make changes in our activities
- To make changes in our goals
- To make changes in our evaluation strategies
- For marketing our work
- To gauge impact
- To inform stakeholders (e.g., partners, industry, advisory board, NSF)

Answer Question 9 only if you indicated use of an *external* evaluator in Question 5.

9. How frequently did your external evaluator interact with your staff (e.g., e-mail, teleconferences, face-to-face) in 2010?
- Rarely (annually or semiannually)
 - Infrequently (not every month but at least quarterly)
 - Occasionally (more often than quarterly and as much as monthly)
 - Often (more often than monthly and as much as biweekly)
 - Continually (very nearly weekly, weekly, or more often)

Professional Development Opportunities for Project/Center Staff

Questions 10 and 11 pertain only to professional development opportunities that your project/center staff attended. Please do not include professional development activities provided by your project/center; these are addressed in Section 5.

10. Did your ATE funds provide support for professional development involvement by project/center faculty and staff in 2010? Note: Project/center faculty and staff are those receiving a portion of their compensation from the grant.
- Yes
 - No (If NO, you are now finished with this section.)
11. In which of the following types of professional development activities did your project/center faculty and staff engage with ATE support? (check all that apply)
- Participation in the annual ATE PI meeting
 - Attendance without presenting at a conference
 - Attended and presented at a conference
 - Site visits to other programs
 - Participation in a short-term workshop, webinar, or training program (one week or less)
 - Participation in a course or multiweek training program
 - Participation in a long-term (e.g., semester) internship, externship, work release program or study (e.g., on location at a business or industry)
 - Enrollment in a degree program
 - Other (specify): _____

Section 3: Collaboration

Collaboration is a relationship with another institution, business, or group that provides money or other support to your project or center. Collaborators are not funded by the grant.

1. For each type of collaborating organization listed below, report the number of different organizations you collaborated with in 2010.

_____ Business/industry

_____ Within your host institution (e.g., other department or administrative unit)

_____ Other education institutions

_____ Public agencies

_____ Other ATE projects/centers

_____ Other (specify): _____

2. Report the total dollar value of monetary and in-kind support received by your project/center from all sources other than your ATE award in 2010 (round to the nearest thousand dollars).

a. Monetary support \$ _____

b. In-kind support \$ _____

3. For each type of collaborating organization listed below, check up to two options that best describe the main benefits to your project/center in 2010. *Each column should not have more than two checked benefits.*

Type of Benefit	Type of Collaborating Organization				
	Business/ Industry	Within Your Host Institution	Other Education Institution	Public Agency	Other ATE Grantee
a. General support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Financial or in-kind support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Developing program content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Facilitating service delivery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Access to decision makers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Information about workforce needs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Developing articulation agreements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Student support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 4: Materials Development

This section of the survey focuses strictly on materials developed for national dissemination to serve instructional purposes (it does not include project/center promotional materials).

All respondents are asked to complete at least the first question in this section—a determiner of who should complete the full section.

1. Did your project/center allocate at least 30 percent of its direct costs OR at least \$100,000 to instructional materials development in 2010?
 - Yes (Complete this section)
 - No, BUT we consider it a significant area of our activity, and we want to report our work. (Complete this section)
 - No (You are now finished with this section)

Materials addressed here are the media (textbooks, laboratory experiments and manuals, software, online materials, CD-ROMs, videos, or other courseware) used to convey the content and instruction of activities, modules, and courses.

DEFINITIONS

Course: A stand-alone collection of instructional content and activities to achieve desired educational outcomes. Courses usually last a semester or a year.

Module: A self-contained collection of content and activities designed to achieve a set of specific objectives. Modules are generally shorter than courses and focus on fewer outcomes.

Activity: An activity is an instructional exercise—for example, a laboratory experiment—designed to achieve a discrete learning outcome or a test to measure achievement or progress toward that outcome.

What is of interest here is the number of **discrete** activities, modules, and courses that your project/center developed in 2010. Do **not** count an activity if it was included as part of a module or course you are reporting on. Similarly, do not count a module separately if it is part of a course that you are reporting on.

2. For each type of material listed below, report the number of materials that were in draft or field-test stage or completed in 2010.

Development Stage	Type of Material		
	Course	Module	Activity
a. In draft or field-test stage			
b. Completed (<i>If your answer is 0 for each of these three cells, skip to Question 6</i>)			

3. For materials you reported as complete in **Question 2b**, report how many of these were distributed via each of the following mechanisms. If multiple distribution modes were employed for a material item (e.g., course), count that material in each category used.

Distribution Mode	Type of Material		
	Course	Module	Activity
a. Published commercially			
b. Distributed by personnel or affiliates (in person, by mail, or electronic delivery)			
c. Internet distribution (videos, pdf files, etc.)			
d. Other (specify):			

4. For the materials you reported as complete in **Question 2b**, report the number that are being used at various locations. A single course, module, or activity might be reported in multiple rows.

Location	Type of Material		
	Course	Module	Activity
a. Number in use locally (at your institution/organization)			
b. Number in use at institutions/organizations that partnered with your project/center in the development effort			
c. Number in use elsewhere (i.e., at nonpartner institutions/organizations)			

5. For the materials you reported as complete in **Question 2b**, report the number of institutions/organizations, other than your own, that are using **at least one** of them. _____

6. For all materials you reported in **Questions 2a & 2b**, report the number directed at each type of audience.

Target Audience	Type of Material		
	Course	Module	Activity
a. Secondary school			
b. 2-year college			
c. 4-year college			
d. Business/industry training or education program			
e. Other (specify):			

7. For the all materials you reported in **Questions 2a & 2b**, report the number that were designed for each type of delivery format.

Context for Use	Type of Material		
	Course	Module	Activity
a. Only online			
b. Only for use in intact, physical classrooms			
c. Blended (partly online and partly at a physical location)			

8. Were the materials developed by your project/center evaluated in 2010?

- Yes
 No (If NO, you are now finished with this section.)

9. Check which of the following data and methods were used in the evaluation of your project/center's materials development efforts and their degree of usefulness.

	Check those that apply	Degree of Usefulness			
		Not Useful	Somewhat Useful	Useful	Very Useful
a. Business and industry input to verify alignment with industry needs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Student and industry standards or guidelines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Review by nonindustry external expert(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Field test of materials internally (i.e., within your project/center)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Field test of materials externally (i.e., outside your project/center)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Check those that apply	Degree of Usefulness			
		Not Useful	Somewhat Useful	Useful	Very Useful
f. Assessment of student performance in the classroom (learning effects)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Assessment of student performance in the workforce (work performance effects)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Data about downloads of materials from a website (e.g., when, how many, who)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Other (specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 5: Professional Development

This section addresses professional development provided to secondary school teachers, college faculty, and preservice teachers to enhance their disciplinary capabilities, teaching skills, vitality, and understanding of current technologies and practices in areas that directly impact technician education.

All respondents are asked to complete at least the first question in this section—a determiner of who should complete the full section.

1. Did your project/center allocate at least 30 percent of its direct costs OR at least \$100,000 to professional development in 2010?
 - Yes (Complete section)
 - No, BUT we consider it a significant area of our activity, and we want to report our work. (Complete this section)
 - No (You are now finished with this section)

Questions 2 and 3 ask about the number of different types of professional development activities offered by your project/center and the number of participants in those activities. If your project/center didn't offer the activity in question, put a zero (0) in the space provided.

DEFINITIONS

Intact classroom: Participants and instructors worked together in the same physical setting.

Distance education: Activities conducted primarily online or with online support.

Follow-up: Activities to support implementation after the initial professional development activity.

2. Report the number of professional development activities offered by your project/center in 2010 and their characteristics.

Type of Professional Development Activity	Total Number of Activities Offered	Number Offered in Intact Classroom Settings	Number Offered Using Distance Education Techniques	Number Offered With Follow-Up Support
a. Short presentations to raise awareness				
b. Instructional activities of less than a day (e.g., lecture, training session)				
c. Instructional activities that last one day to one week (e.g., workshop, online module)				

Type of Professional Development Activity	Total Number of Activities Offered	Number Offered in Intact Classroom Settings	Number Offered Using Distance Education Techniques	Number Offered With Follow-Up Support
d. Instructional activities that last from one to several weeks (e.g., course, summer institute)				
e. A long-term periodic instructional activity (e.g., internship, peer coaching)				

3. Report the number of participants in your project/center's 2010 professional development activities.

Type of Professional Development Activity	Total Number of Participants	Number of Participants in Intact Classroom Settings	Number of Participants in Distance Education Settings	Number of Participants Who Received Follow-Up Support
a. Short presentations to raise awareness				
b. Instructional activities of less than a day (e.g., lecture, training session)				
c. Instructional activities that last one day to one week (e.g., workshop, online module)				
d. Instructional activities that last from one to several weeks (e.g., course, summer institute)				
e. A long-term periodic instructional activity (e.g., internship, peer coaching)				

4. Report the number of participants in your 2010 professional development activities that are associated with each education level.

Professional Development Activity	Total Number of Participants			
	Secondary Level	Associate Level	Baccalaureate Level	Other
a. Short presentations to raise awareness				
b. Instructional activities of less than a day (e.g., lecture, training session)				
c. Instructional activities that last one day to one week (e.g., workshop, online module)				
d. Instructional activities that last from one to several weeks (e.g., course, summer institute)				
e. A long-term periodic instructional activity (e.g., internship, peer coaching)				

5. What percentage of participants implemented new materials or ideas after attending your professional development activities? Your estimates should be based on data your project/center collected. *If you did not collect data for an activity, enter NA.*

Type of Professional Development Activity	% of participants who implemented one or more of the new materials or ideas
a. Short presentations to provide awareness	_____ %
b. Instructional activities of half-day or less (e.g., a lecture, training session)	_____ %
c. Instructional activities that last one day to one week (e.g., workshop, online module)	_____ %
d. Instructional activities that last from one to several weeks (e.g., a course, summer institute, etc.)	_____ %
e. A long-term periodic instructional activity (e.g., internship, peer coaching)	_____ %

6. This question presents different outcomes that projects and centers might seek to achieve in a professional development program. If you believe your professional development work achieved the specified outcome, place a check in the first column. If your project/center gathered information regarding that outcome, regardless of whether it was achieved, also place a check in the second column.

	This outcome was achieved in 2010	Data were gathered in 2010 to provide evidence of this outcome
a. At least 90% of participants gained new information, techniques, skills, or materials that are applicable for use in their own technician courses.	<input type="checkbox"/>	<input type="checkbox"/>
b. At least 75% of participants believe that the workshop improved their teaching knowledge or skills.	<input type="checkbox"/>	<input type="checkbox"/>
c. At least 70% of the participants applied the ideas (information, techniques, skills, or materials) in their own technician courses.	<input type="checkbox"/>	<input type="checkbox"/>
d. Student improvement occurred in at least 30% of participants' classrooms resulting from their changed instruction (e.g., students were more interested, learned new content, or achieved higher scores).	<input type="checkbox"/>	<input type="checkbox"/>

7. Were any of your project/center's professional development activities evaluated in 2010?
 Yes
 No (If NO, you are now finished with this section.)
8. How many professional development activities were evaluated? _____

If more than one professional development activity was evaluated, refer to the most comprehensive one in your answers to Questions 9-11.

- 9a. Were data collected from participants at the conclusion of the activity?
 Yes
 No (If NO, skip to Question 10)
- b. Which of the following types of data were collected? (check all that apply)
 Participants' opinions about the training
 Perceived value of new ideas, materials, or techniques for use in the participants' home institutions
 Participant learning/achievement

- c. If you checked the participant learning/achievement box above, what method(s) were used to assess learning/achievement? (check all that apply)
- Participants' self-assessment of how much they learned
 - Instructor-prepared hands-on or written assessments
 - Externally prepared exams (e.g., Microsoft certification exam)
- 10a. Did the evaluation include follow-up with participants to determine implementation or adoption of ideas?
- Yes
 - No (If NO, skip to Question 11)
- b. Did the evaluation determine whether participants implemented the ideas, materials, or techniques correctly?
- Yes
 - No
- c. Did the evaluation assess changes in interest or achievement among the students of participants?
- Yes
 - No
11. Did the evaluation include feedback from experts about the professional development content or instruction?
- Yes
 - No

Section 6: Program Improvement

This section addresses the development or improvement of technician- or technological-education programs for secondary students, college students, or persons employed in technician or technician-related positions in business or industry.

All respondents are asked to complete at least the first question in this section—a determiner of who should complete the full section.

DEFINITION

Program: A sequence of classes, laboratories, and/or work-based experiences that lead students to a degree, certification, or an occupational competency point.

1. Did your project/center allocate at least 30 percent of its direct costs **OR** at least \$100,000 to program improvement in 2010?
 - Yes (Complete section)
 - No, BUT we consider it a significant area of our activity, and we want to report our work. (Complete this section)
 - No (You are now finished with this section)

2. How many faculty and staff members were involved in your program improvement work (e.g., drafted new materials, taught, helped make decisions about program development or implementation)?
 - _____ Full-time faculty
 - _____ Part-time faculty
 - _____ Full-time staff
 - _____ Part-time staff

3. Report the number of programs and courses for each education level and on-the-job training included in your program improvement work in 2010.

	Education Level				On-the-Job Training/ Contract Training
	Secondary	Associate	Baccalaureate	Post Baccalaureate	
a. Total number of programs supported by your ATE grant					
b. Total number of ATE grant-funded programs <u>developed or modified in 2010</u>					

	Education Level				On-the-Job Training/ Contract Training
	Secondary	Associate	Baccalaureate	Post Baccalaureate	
c. Total number of separate courses offered across all ATE grant-funded programs (if a course appears in more than one program, count it only once)					
d. Total number of separate courses <u>developed or modified in 2010</u> with ATE support (if a course appears in more than one program, count it only once)					

4. For each type of benefit below, report the total number of courses that directly benefited from ATE support in 2010.

Benefit	Number of Courses Affected
a. Increased instructor knowledge or skills	
b. Improved coherence of content and/or skill development across courses	
c. New supplies or equipment to support student instruction	
d. Improved course content (scope or depth of coverage) through new or revised instructional materials (e.g., courses, modules, and exercises)	

5. Were your project/center's program improvement activities evaluated in 2010?

- Yes
- No (If NO, you are now finished with this section.)

6. Check which of the following evaluation data and methods were used in the evaluation of your project/center's program improvement efforts and their degree of usefulness.

	Check those that apply	Degree of Usefulness			
		Not Useful	Somewhat Useful	Useful	Very Useful
a. Course-level student satisfaction data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. End-of-program student satisfaction data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Student course grades	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Data regarding student dropout rates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Data on student or industry referrals to the program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Postprogram follow-up data from former students (e.g., employment status, preparedness for industry)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Postprogram follow-up data from supervisors of former students (e.g., about their skills, knowledge, preparedness)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Testing of students' knowledge and skills against established business/industry work standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Comparison of students' knowledge and skills against other critical competitors (e.g., personnel from other colleges or military programs or other courses)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Faculty feedback on course and program implementation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Course records/logs (syllabi, content taught, sample assignments, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. Feedback from instructional experts regarding content and instruction of courses and programs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m. Feedback from companies that employ your students and graduates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n. Expert panel review of program and/or products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o. Other (specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 7: Special Topics

This section addresses research and emerging topics of interest to NSF program officers, ATE researchers, and other ATE projects/centers.

Questions in this section are intended to be included for a limited time and/or on a rotational basis. All respondents are asked to complete this section.

NSF Monitoring of ATE Grants

1. Indicate the frequency of the following types of contact between your center/project and your NSF program officer in 2010.

Monitoring Action	Number of times this happened in 2010			
	Never	1	2-4	5+
a. Telephone calls				
b. E-mail contacts				
c. Face-to-face meetings				
d. Feedback on reports submitted by your project/center				

2. Respond to questions a-d by indicating to what extent you agree or disagree with each statement.

Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Not Applicable
a. NSF has been responsive in meeting my project's/center's identified needs (e.g., through telephone calls, e-mails)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. NSF site visits and/or evaluative actions have helped to improve the quality of my project/center	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. NSF facilitates collaboration between my center/project and other ATE projects/centers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. NSF has an accurate understanding of my center/project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evaluation

The 2010 ATE program solicitation states that “The PI should establish claims as to the project's effectiveness, and the evaluative activities should provide evidence on the extent to which the claims are realized” (p. 6).

3. Provide one example of a claim or impact related to your project/center.

4. What is the evidence to support this claim or impact?

Recruitment and Retention of Women

5a. What specific efforts (strategies) have you implemented to increase the percentage of women **enrolled** in your programs?

5b. What was the outcome of these efforts?

6a. What specific efforts (strategies) have you implemented to increase the percentage of women **retained** in your programs?

6b. What was the outcome of these efforts?