Appendix B: Omnibus NSF Engineering Longitudinal Survey Instrument Time 2

	Respondent	Questions and Skip Logic

A.1.	Non-I-Corps PIs only	**Survey Screener**
		
		Have you ever received an I-Corps Team award from the National Science Foundation (NSF)?
		
		   o Yes [Exit Survey]
		   o No [proceed to A.2.]

A.2.	Non-I-Corps PIs only	Have you ever received an I-Corps Team award from the National Institutes of Health (NIH)?
		
		   o Yes [Exit Survey]
		   o No [proceed to A.3.]

A.3.	Non-I-Corps PIs only	Have you ever explored opportunities to commercialize any aspect of your NSF-funded research?
		
		   o Yes [proceed to A.4.]
		   o No [proceed to A.4.]

A.4.	Non-I-Corps PIs only	When exploring the commercialization of your NSF-funded research, did you ever: [If no to A.3.] *Have you ever done any of the following?*

4a	Participate in entrepreneurial training?	o Yes o No
4b	Apply for governmental or institutional grants to promote commercialization?	o Yes o No
4c	Seek advice on commercializing my research?	o Yes o No
4d	Explore commercialization opportunities in other ways?	o Yes (Please specify) o No

	Respondent	Questions and Skip Logic
B.1.	Non-I-Corps PIs only	**Your NSF-funded research** In this survey, we will ask about your experience pursuing commercialization of NSF-funded research. You will need to identify one NSF-funded project with the most commercial potential or one that you spent most time in commercializing. In the remainder of the survey, we will refer to this project as "your NSF project." Thinking back to your NSF grant(s), identify *one* research project that led you to explore related opportunities to commercialize products, services or technologies. *If you have multiple projects that meet these criteria, please focus on the one that you think has advanced the most in terms of commercialization.* Project Name: _____ Award ID: _____

		Project Start Year: _____ Project End Year: _____
B.2.	Non-I-Corps PIs only	In which year did you start the effort to commercialize your NSF project? YYYY

B.3.	Non-I-Corps PIs only	Indicate how many times you participated in each of the following experiences. Enter zero (0) if you did not have any prior experience:		

Indicate how many times you participated in each of the following experiences. Enter zero (0) if you did not have any prior experience:

	Prior to the start of the effort to commercialize your NSF project	After to the start of the effort to commercialize your NSF project
Contributed ideas utilized by a company to improve a product, service, or process		
Presented a business idea to investors		
Generated trade secrets		
Served on a corporate advisory board		
Founded or cofounded a venture (for-profit, nonprofit, not-for-profit) that developed or sold products or services based on your research		
Participated in the technology transfer process at your university		
Disclosed an invention to the university		
Licensed your research/technology		
Received royalties for your work		
Participated in industry funded research		
Issued a patent		
Interviewed potential customers about a product, service, or technology		
Conducted market research		
Applied for a patent as an inventor or co-inventor		

B.4.	Non-I-Corps PIs only	What activities did you undertake when you explored commercialization of your NSF project? (Select all that apply) ☐ Led efforts to conduct outreach with prospective customers ☐ Provided advice based on prior entrepreneurial background ☐ Contributed to R&D of product/technology ☐ Sought support from university entrepreneurial office ☐ Sought support from university technology transfer office ☐ Represented or acted as a potential investor
C.1.	Non-I-Corps PIs only	**Your Commercialization Effort** Did you develop a formal written business strategy to guide your efforts to commercialize your project? o Yes o No

| C.2. | Non-I-Corps PIs only | [If yes to 4.a] Please identify the types of entrepreneurial training you received, the number of times you participated and for what total amount of time. |

	How many times?	Total cumulative time for all occurrences?
I-Corps Courses (offered at I-Corps Site or Node programs)	o Never o Once o More than once	o Less than 1 day o At least 1 day but less than 1 week o At least 1 week but less than1 month o At least 1 month but less than 1 semester o At least 1 semester but less than 1 year o 1 year or more
Courses using Customer Discovery or the Business Model Canvas	o Never o Once o More than once	o Less than 1 day o At least 1 day but less than 1 week o At least 1 week but less than1 month o At least 1 month but less than 1 semester o At least 1 semester but less than 1 year o 1 year or more
Accelerator Programs (e.g. Tech Stars or Y Combinator)	o Never o Once o More than once	o Less than 1 day o At least 1 day but less than 1 week o At least 1 week but less than1 month o At least 1 month but less than 1 semester o At least 1 semester but less than 1 year o 1 year or more
Other Entrepreneurial educational Programs	o Never o Once o More than once	o Less than 1 day o At least 1 day but less than 1 week o At least 1 week but less than1 month o At least 1 month but less than 1 semester o At least 1 semester but less than 1 year o 1 year or more

C.3.	Non-I-Corps PIs only	What other types of commercialization support have you or your team received? Please choose all that apply: ☐ One-on-one coaching ☐ Group coaching ☐ Peer support ☐ University-based mentor ☐ Industry-based mentor (other than I-Corps team mentor) ☐ Other: ☐ None
D.1.	Non-I-Corps PIs only	**Your Team** In this section, we will obtain information about the individuals who you worked closely with in your efforts to commercialize your NSF project. By this we mean those who supported your efforts in a direct capacity (e.g., were brought on to help you navigate any difficulties you might experience in advancing your commercialization efforts). We will refer to these individuals as members of ***your team.*** When exploring the commercial opportunities associated with your NSF project, how many people have you worked closely with? o 1 o 2 o 3 o 4 o 5+
D.2.	Non-I-Corps PIs only	[Questions D2-D5 repeat depending on D1 answer] When did you start working with this person? mm/yyyy
D.3.	Non-I-Corps PIs only	Are you still working with this person on the commercialization effort? o Yes o No
D3.a.	Non-I-Corps PIs only	[if no] when did you stop working with this person on the commercialization effort? mm/yyyy
D.4.	Non-I-Corps PIs only	Was this person a post-doctoral or graduate student at your institution or at an affiliated institution? o Yes o No

D.5.	Non-I-Corps PIs only	What activities did this person undertake when working on the commercialization effort of your NSF project? (Select all that apply) ☐ Led efforts to conduct outreach with prospective customers ☐ Provided advice based on prior entrepreneurial background ☐ Contributed to R&D of product/technology ☐ Sought support from university entrepreneurial office ☐ Sought support from university technology transfer office ☐ Represented or acted as a potential investor
D.5.a.		Are you familiar with the Osterwalder "Business Canvas Model'? o Yes o No
0	I-Corps Teams only	**Project Status** [Displayed for all] This survey asks about your experiences as a(n) [ROLE] with the [TEAM NAME] team from [INSTITUTION] in the [COURSE NAME] I-Corps course, the same team you updated us on in the first I-Corps Longitudinal Outcomes Survey. Please note: if you have participated in other I-Corps teams in addition to the team above, there will be space at the end of the survey to share your other experiences. Please fill out all other questions for the [TEAM NAME] team.
1	I-Corps Teams only	Since you last updated us in 2014, have you been involved with the I-Corps project? If you continued involvement, please describe how you were involved in the comment box. o Yes, I continued to be involved with the project o No, I stopped being involved with the project. Make a comment on your choice here:
2	I-Corps Teams only	[If item 1 (involvement with I-Corps project) response is "No, I stopped being involved with the project."] If you know who is the most knowledgeable person to contact about the project right now, please provide details below. Name:_____ Role in project:_____
3	I-Corps Teams only	[If item 1 (involvement with I-Corps project) response is "yes, I continued to be involved with the project"] Is this project still active? o Yes o No o Uncertain

4	I-Corps Teams only	[If item 3 (whether project is active) response is "Uncertain"] Select any of the reasons listed below that explain why you are uncertain. o We have not yet identified a large enough market for our product/technology o The time to get the technology into market may be too great o We are encountering difficulties with our technology itself o We have not yet obtained needed financing/investment to continue o We are having problems with intellectual property o We are having problems with our team o Other
5	I-Corps Teams only	[If item 3 (whether project is active) response is "No"] Why is this project no longer active? o We successfully commercialized our project o We decided to discontinue pursuing commercialization for our project o Other:
6	I-Corps Teams only	[If item 1 (involvement with I-Corps project) is "yes" AND item 3 (whether project is active) response is "No"] We were not able to identify a large enough market for our product/technology o The time to get the technology into market was too great o We had problems with our intellectual property o We encountered difficulties with the technology or product o We could not obtain necessary financing/ investment to continue o The company was acquired o We had problems with our team
7	ALL	If item 1 (involvement with I-Corps project) is "yes" AND item 3 (whether project is active) response is "Yes" Which of the following best describes your project's current area of research or technology? o Advanced Materials and Instrumentation (MI) o Advanced Manufacturing and Nanotechnology (MN) o Biological Technologies (BT) o Chemical and Environmental Technologies (CT) o Electronic Hardware, Robotics and Wireless Technologies (EW) o Educational Technologies and Applications (EA) o Information and Communication Technologies (IC) o Semiconductors (S) and Photonic (PH) Devices and Materials o Smart Health (SH) and Biomedical Technologies (BM) o Other: Please Specify
8	ALL	**Business Creation and Dissolution** [If no company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.)] Our records indicate that no company has been incorporated based on your I-Corps project. Is this still correct? o No company has been incorporated o One or more companies have been incorporated _____ [For non-I-Corps] Has a company been incorporated based on your NSF project?

		o Yes o No
9	I-Corps	We have the following company information associated with your team. Company Name: [COMPANY NAME FROM VW DATABASE] Incorporation date: [COMPANY INCORPORATION DATE FROM VW DATABASE] Current status: [ACQUIRED OR ACTIVE - Time 1 and VW COMPANY DATABASE] Website: [COMPANY WEBSITE FROM VW DATABASE] If any information needs to be updated, please Multiple choice. If existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.) o Name is incorrect o Incorporation date is incorrect or needs to be added o Website is incorrect or needs to be added
10	ALL	[If response to item 8 (company creation) is "one or more companies have been incorporated" or "No" for non-I-Corps] What is the name of this company? If you are unsure, please type "unsure." Please note that if there are multiple companies, we ask that you respond only for the company that was last active. Text: open
11	ALL	[If response to item 8 (company creation) is "one or more companies have been incorporated"] What is the URL of the company's website, if any?
12		[If response to item 8 (company creation) is "one or more companies have been incorporated"] When was the company incorporated? (mm/dd/yyyy)
13	ALL	[If response to item 8 (company creation) is "one or more companies have been incorporated" OR If existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.)] Is this company still operational? o Yes o No
27	ALL	["If response to item 13 (whether companis active) is "yes"] What sector best describes this company? o Agriculture o Education o Energy & Materials o Environment o Healthcare/Medical o Information Technology and Communication

		o Infrastructure/Building o Sanitation/Water o Other
15	ALL	[If response to item 13 (whether company is operational) is "No"] Approximately when did this company close or dissolve? (mm/yyyy)

14	ALL	[If response to item 13 (whether company is operational) is "No"]
		Why did the company close/dissolve?
		    o We were not able to identify a large enough market for our product/technology
		    o The time to get the technology into market was too great
		    o We had problems with our intellectual property
		    o We encountered difficulties with the technology or product
		    o We could not obtain necessary financing/investment to continue
		    o The company was acquired
		    o Other

17	I-Corps	[If existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.) AND Time 1 response to this question.]
		Our records indicate that your company is a {Time 1 response to legal form}. Is this still correct?
		    o Yes
		    o No

19	I-Corps	[If response to item 8 (new company creation) is "one or more companies have been incorporated" OR If response to item 17 (whether Time 1 response needs to be updated) is "Yes"]
		Which of the following best describes how the business was started.
		    o A new business, branch or subsidiary owned by an existing business
		    o A business inherited from someone else
		    o A new, Independent business created by a single person or a team of people
		    o The purchase of an existing business
		    o The purchase of a franchise
		    o An organization designed for social and charitable objectives and legally established as a not-for-profit
		    o Other:

18	I-Corps	[If existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.) AND Time 1 response to this question.]
		In 2014, you told us that:
		The business was started as [STARTING BUSINESS FORM AT Time 1].
		The business's current legal form is a(n) [CURRENT BUSINESS FORM AT Time 1].
		If it had another legal form, the business was previously a(n) [OTHER LEGAL FORM AT Time 1].
		Is this still correct? *
		    o Yes
		    o No

20	I-Corps	[If response to item 8 (new company creation) is "one or more companies have been incorporated"OR If response to item 18 (whether Time 1 company info is correct) is "No"]

		Which form of legal status does your business currently have? o Sole Proprietorship: A type of business ownership in which a business is owned and managed by one individual and no sub-chapter S-corporation or C-corporation has been established. o Limited Liability Company: A cross between a corporation and a partnership, and offering some of the benefits of both. Similar to S corporations, income produced by a limited liability company flows through the owners (known as "members") who pay their own taxes as individuals. Unlike S corporations, however, limited liability companies are not subject to as many government restrictions. o Sub-chapter S-Corporation: Corporations in which all profits and losses are passed through to shareholders, just as they are passed through to legal partners in a partnership. o C-Corporation: Legal entities separate from their owners that may engage in business, make contracts, own property, pay taxes, and sue and be sued by others. o General Partnership: An association of two or more people who co-own a business for the purpose of making a profit and no sub-chapter S-corporation or C-Corporation has been established. o Limited Partnership: A partnership in which one or more partners who manage the business and others are limited partners who invest in the business but forgo any right to manage the company. o Other:
21	I-Corps	[If response to item 8 (new company creation) is "one or more companies have been incorporated" OR If response to item 18 (whether Time 1 company info is correct) is "No"] Since you incorporated, were the business operations ever conducted under one of the other legal forms listed above? o Yes o No
22	I-Corps	[If response to item 8 (new company creation) is "one or more companies have been incorporated"ORIf response to item 18 (whether Time 1 company info is correct) is "No"] Which form of legal status did the business previously have?
23	I-Corps	## Business Info [If existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.) AND Time 1 responses to this group of questions. If more than one company, showing active one only] We have the following CEO information for [COMPANY NAME FROM VW DATABASE]: Role on I-Corps team: [Time 1 RESPONSE] Industry type, if not from I-Corps team: [Time 1 RESPONSE] Is this still correct? o Yes o No

24	ALL	[If response to item 8 (new company creation) is "one or more companies have been incorporated" OR "no" for non-I-Corps OR If response to item 23 (whether Time 1 CEO info is correct) is "No"]
		Who is the CEO of your company? If you would like to explain your answer further, please use the comment box. The I-Corps PI
		   o The I-Corps EL
		   o The I-Corps Mentor
		   o Other:
		_____
		
		[For non-I-Corps]
		   o You
		   o Someone else (please specify).

25	All	[If response to item 24 (CEO of company) was "Other"] Please indicate what industry or type of business the CEO is from. Text box
26	I-Corps	[If response to item 8 (new company creation) is "one or more companies have been incorporated" OR If existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.)] Which companies do you consider to be your major competitors and why?

27	ALL	["If response to item 8 (new company creation) is "one or more companies have been incorporated" OR If existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.)]
		What sector best describes the industry of your major competitors?
		   o Agriculture
		   o Education
		   o Energy & Materials
		   o Environment
		   o Healthcare/Medical
		   o Information Technology and Communication
		   o Infrastructure/Building
		   o Sanitation/Water
		   o Other

28	I-Corps	[If response to item 8 (new company creation) is "one or more companies have been incorporated" OR If existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.)]
		Which company size best describes your major competitors?
		   o 1-10 employees
		   o 11-50 employees
		   o 51-200 employees
		   o 201-500 employees
		   o 501-1000 employees
		   o More than 1000 employees
		   o Other

	ALL	["If response to item 13 (whether company is active) is "yes"] Please select the items below that are true of your business. |	majority owner(s),	co-owner(s),	in leadership role(s)
---	---	---	---
Women are …			
Socially disadvantaged individuals are …				 Help text: The SBA defines socially disadvantaged individuals as "those who have been subjected to racial or ethnic prejudice or cultural bias because of their identity as a member of a group without regard to their individual qualities."
	I-Corps	["If response to item 13 (whether company is active) is "yes"] Does your business meet the requirements for 8(a) certification? Yes, and we are 8(a) certified o Yes, and our 8(a) application is in process o Yes, and we intend to apply for 8(a) certification o Yes, and we **do not** intend to apply for 8(a) certification o No, we do not meet the requirements o Unsure
29	I-Corps	[If response to item 8 (new company creation) is "one or more companies have been incorporated"ORIf existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.)] Who is the majority or principal shareholder of the company? o The I-Corps PI o The I-Corps EL The I-Corps EL o The I-Corps mentor The I-Corps mentor o Equal shareholders (please describe) o Other
30	I-Corps	[If existing company in VW database (via intake/post responses, news forwarded from NSF project officer, etc.) AND Time 1 responses to this set of items] In 2014, you told us that [COMPANY NAME FROM VW DATABASE] had the following: [Time 1 RESPONSE] Individuals or entities who owned shares in the business [Time 1 RESPONSE] owner(s) who actively helped run the business [Time 1 RESPONSE] full time employees [Time 1 RESPONSE] part time employees Is this information still correct? o Yes o No
31	I-Corps	[If response to item 8 (new company creation) is "one or more companies have been incorporated" OR If response to item 30 (whether Time 1 ownership and employees responses are still correct) is "No"] Since participation in I-Corps, how many individuals or entities owned shares in the business?

32	I-Corps	[If response to item 8 (new company creation) is "one or more companies have been incorporated"ORIf response to item 30 (whether Time 1 ownership and employees responses are still correct) is "No"] Of the owner or owners since participation in I-Corps, how many owners actively helped to run the business? [By" helped to run the business" we mean that they provided regular assistance or advice with day-to-day operations of the business, rather than providing only money or occasional operating assistance.]
33	ALL	[If response to item 8 (new company creation) is "one or more companies have been incorporated" OR If response to item 30 (whether Time 1 ownership and employees responses are still correct) is "No"] Not counting owner(s), how many people currently work for the business? Full time employees*** Part time employees *** Full time: working 35 hours or more per week. Please **exclude** contract workers who work for the business either full- or part-time but are not on the business' official payroll.

34	ALL	**Licensing**
		[If item 1 (involvement with I-Corps project) response is "yes, I continued to be involved with the project" AND If response to item 30 (whether Time 1 ownership and employees responses are still correct) is "No"]
		
		After the I-Corps course ended, did you engage in any licensing activities? /
		[For non-I-Corps] Have you engaged in any licensing activities associated with your NSF project?
		    o Yes
		    o No

35	I-Corps	[If Time 1 response] In 2014, you told us that {TOKEN:ATTRIBUTE_30} employee(s) worked in areas related to product development or other activities arising from your I-Corps participation.
		
		Is that still correct?
		    o Yes
		    o No

36	I-Corps	[If response to item 34 (licensing activities) is "Yes" OR If response to item 35 (whether Time 1 employees in product development is still correct) is "No"] How many employees work in areas related to product development or other activity arising from your I-Corps participation?

37	I-Corps	[If Time 1 response]
		In 2014, you told us that your business had:
		[Time 1 response] invention(s) disclosed
		[Time 1 response] patent application(s)
		[Time 1 response] patent(s) granted
		[Time 1 response] patent(s) in use
		[Time 1 response] invention(s) producing royalties
		[Time 1 response] software copyright(s)
		[Time 1 response] company trademark(s)
		[Time 1 response]} non-disclosure agreement(s) (NDA)
		[Time 1 response] materials transfer agreement(s) (MTA)
		
		Are these totals still correct?
		   ○ Yes
		   ○ No

38	ALL	[If response to item 34 (licensing activities) is "Yes" OR If response to item 37 (whether Time 1 responses to patents, etc. were still correct) is "No"]
		
		How many of the following does the business have? Enter "0" if none.
		   ▪ Inventions Disclosed _____
		   ▪ Licensing Agreements _____
		   ▪ Patent Applications _____
		   ▪ Patents Granted _____
		   ▪ Patents in Use _____
		   ▪ Inventions Producing Royalties _____
		   ▪ Software Copyrights _____
		   ▪ Company Trademarks _____
		   ▪ Non-disclosure Agreements (NDA) _____
		   ▪ Materials Transfer Agreements (MTA) _____

39	I-Corps	[If Time 1 response]
		In 2014, you told us that your business had the following licensed out** since participating in I-Corps:
		[Time 1 response] patents
		[Time 1 response] copyrights
		[Time 1 response] trademarks
		
		Are these totals still correct?
		
		*** Licensing out is licensing patents, copyrights, or trademarks owned by the business to other parties under a licensing agreement.
		   ○ Yes
		   ○ No

40	ALL	 B. [Since participation in the NSF-funded project], how many of the following has the business licensed out?*** Enter "0" if none. • Patents _____ • Copyrights _____ • Trademarks _____ • Trade Secrets _____ *** **Licensing out** is licensing patents, copyrights, or trademarks owned by the business to other parties under a licensing agreement.
41	I-Corps	 In 2014, you told us that your business had the following licensed in** since participating in I-Corps: {TOKEN:ATTRIBUTE_42} patents {TOKEN:ATTRIBUTE_32} copyrights {TOKEN:ATTRIBUTE_33} trademarks Are these totals still correct? o Yes o No **Licensing in is acquiring the right to use intellectual property such as patents, copyrights, or trademarks created by someone outside the business through a licensing agreement.
42	ALL	 How many patents, copyrights, or trademarks has the business _licensed in **_ since participating in the NSF-funded project? Enter "0" if none. • Patents _____ • Copyrights _____ • Trademarks _____ • Trade Secrets _____ ** **Licensing in** is acquiring the right to use intellectual property such as patents, copyrights, or trademarks created by someone outside the business through a licensing agreement.
43		**Funding Routing** Did you seek funding for this I-Corps project from any of the following sources? Please Multiple choice. o Federal government funding o State or regional government funding o Non-government funding o I did not seek funding

44	ALL	**Government Funding** [If "Federal government funding" is selected in item 43 (types of funding sought)] Please indicate the number of NSF awards you applied for based on your [I-Corps or NSF] project [during or after the I-Corps course]. ☐ Small Business Innovation Research (SBIR) ☐ Small Business Technology Transfer Program (STTR) ☐ Accelerating Innovation Research/Partnership for Innovation (PFI:AIR) ☐ Engineering Research Center (ERC) ☐ Grant Opportunities for Academic Liaison with Industry (GOALI) ☐ Science and Technology Centers (STC)
45	ALL (*** for non-I-Corps)	[If "Federal government funding" is selected in item 43 (types of funding sought)] Please enter as much information as you can about your funded NSF proposals: ▪ Date Awarded (mm/yyyy) *** ▪ Phase, if SBIR/STTR *** ▪ Amount Awarded*** ▪ Proposal Number ▪ Title ▪ PI name ▪ Company name (if applicable)
46	ALL	[If "Federal government funding" is selected in item 43 (types of funding sought)] Which other agencies, if any, did you apply to for SBIR/STTR awards based on your I-Corps project [during or after the I-Corps course (after [COURSE START DATE])]? Multiple choice. ☐ Department of Agriculture ☐ Department of Commerce ☐ Department of Defense ☐ Department of Education ☐ Department of Energy ☐ Department of Health and Human Services ☐ Department of Homeland Security ☐ Department of Transportation ☐ Environmental Protection Agency ☐ National Aeronautics and Space Administration ☐ National Institute of Standards and Technology ☐ National Oceanic and Atmospheric Administration
47	ALL	[Follow-up question for each agency selected in item 47 (funding from federal agencies other than NSF)] Please indicate the number of [AGENCY NAME] SBIR/STTR awards you applied for based on your I-Corps project. ▪ Total submitted ▪ In process (outcome unknown) ▪ Declined ▪ Funded

48	ALL (*** for non-I-Corps)	[Follow-up question for each agency selected in item 47 (funding from federal agencies other than NSF)] Please enter as much information as you can about your funded SBIR/STTR proposals from [AGENCY NAME], if any. - Date Awarded (mm/yyyy) *** - Phase *** - Amount Awarded *** - Proposal Number - Title - PI name - Company name (if applicable)
49	ALL	[If "State or regional government funding" is selected in item 43 (types of funding sought)] Please enter as much information as you can about any additional state or regional government funding you received for your I-Corps project below. - Date awarded (mm/yyyy) - Amount awarded - State Abbreviation, if applicable (MA, NY etc.) - Region, if applicable - Description
50	ALL	[If "State or regional government funding" is selected in item 43 (types of funding sought)] If you received any additional government funding not covered above, please explain: - Yes - No
51	ALL	**Private Funding** [If "Non-government funding" is selected in item 43 (types of funding sought)] Did you seek funding or support for this I-Corps project from any of the following sources? - Self investment in the business entity - Bootstrap or crowd-funding Bootstrap or crowd-funding - Individual private investment from non-accredited investor(s) (e.g., family, friends, etc.) - Incubator or accelerator direct financing or equity exchange - Debt financing (e.g., SBA loan or convertible debt instrument) - Accredited angel investor or group - Non-corporate institutional venture capital/seed stage funding - Corporate venture capital/seed stage funding - Funding from foundations and non-profits - Other
52	ALL	[If selected "Self investment in the business entity" in item 51 (types of non-government funding sought)] Please enter as much information as you can about your self-investment in this I-Corps project. - Amount - Date received (mm/yyyy) - Description/Source (optional)

53	ALL	[If selected "Bootstrap or crowd-funding Bootstrap or crowd-funding" in item 51 (types of non-government funding sought)] Please enter as much information as you can about your I-Corps project's bootstrap or crowd-funding activities. ■ Amount ■ Date received (mm/yyyy) ■ Description/Source (optional)
54	ALL	[If selected "Individual private investment from non-accredited investor(s) (e.g., family, friends, etc.)" in item 51 (types of non-government funding sought)] Please enter as much information as you can about your I-Corps project's funding from individual private investment from non-accredited investors. ■ Amount ■ Date received (mm/yyyy) ■ Description/Source (optional)
55	ALL	[If selected "Incubator or accelerator direct financing or equity exchange" in item 51 (types of non-government funding sought)] Please enter as much information as you can about your I-Corps project's funding from incubator or accelerator direct financing or equity exchange. ■ Amount ■ Date received (mm/yyyy) ■ Description/Source (optional)
56	ALL	[If selected "Debt financing (e.g., SBA loan or convertible debt instrument)" in item 51 (types of non-government funding sought)] Please enter as much information as you can about your I-Corps project's funding from debt financing. ■ Amount ■ Date received (mm/yyyy) ■ Description/Source (optional)
57	ALL	[If selected "Accredited angel investor or group" in item 51 (types of non-government funding sought)] Please enter as much information as you can about your I-Corps project's funding from accredited angel investors or groups. ■ Amount ■ Date received (mm/yyyy) ■ Description/Source (optional)
58	ALL	[If selected "Non-corporate institutional venture capital/seed stage funding" in item 51 (types of non-government funding sought)] Please enter as much information as you can about your I-Corps project's funding from venture capital and/or seed stage sources. ■ Amount ■ Date received (mm/yyyy) ■ Description/Source (optional)

59	ALL	[If selected "Corporate venture capital/seed stage funding " in item 51 (types of non-government funding sought)] Please enter as much information as you can about your I-Corps project's funding from <u>venture capital and/or seed stage sources</u>. ▪ Amount ▪ Date received (mm/yyyy) ▪ Description/Source (optional)
60		[If selected "Funding from foundations and non-profits" in item 51 (types of non-government funding sought)] Please enter as much information as you can about your I-Corps project's funding from <u>venture capital and/or seed stage sources</u>. ▪ Amount ▪ Date received (mm/yyyy) ▪ Description/Source (optional)
61	I-Corps	**Planned Funding** [If item 1 (involvement with I-Corps project) response is "yes, I continued to be involved with the project"] Will you seek funding for this I-Corps project from any of the following sources in the next 12 months? ☐ Federal government funding ☐ State or regional government funding ☐ Non-government funding ☐ I will not seek funding
62	I-Corps	[If "Federal government funding" is selected in item 61 (types of funding you will seek)] Which NSF awards, if any, will you apply for based on your I-Corps project in the next 12 months? ☐ Small Business Innovation Research (SBIR) Phase I Small Business Innovation Research (SBIR) Phase I ☐ Small Business Innovation Research (SBIR) Phase II ☐ Small Business Technology Transfer Program (STTR) Phase I ☐ Small Business Technology Transfer Program (STTR) Phase II ☐ Accelerating Innovation Research/Partnerships for Innovation (AIR/PFI) ☐ Engineering Research Center (ERC) ☐ Grant Opportunities for Academic Liaison with Industry (GOALI) ☐ Science and Technology Centers (STC)

63	I-Corps	[If "Federal government funding" is selected in item 61 (types of funding you will seek)] Which other agencies, if any, will you apply to for SBIR/STTR awards based on your I-Corps project in the next 12 months? Department of Agriculture ☐ Department of Commerce ☐ Department of Defense ☐ Department of Education ☐ Department of Energy ☐ Department of Health and Human Services/National Institutes of Health ☐ Department of Homeland Security ☐ Department of Transportation ☐ Environmental Protection Agency ☐ National Aeronautics and Space Administration ☐ National Institute of Standards and Technology ☐ National Oceanic and Atmospheric Administration
64	I-Corps	[If " Non-government funding" is selected in item 61 (types of funding you will seek)] Will you seek funding or support for this I-Corps project from any of the following sources in the next 12 months? ☐ Self-investment in the business entity ☐ Bootstrap or crowd-funding Bootstrap or crowd-funding ☐ Individual private investment from non-accredited investor(s) (e.g., family, friends, etc.) ☐ Incubator or accelerator direct financing or equity exchange ☐ Debt financing (e.g., SBA loan or convertible debt instrument) ☐ Accredited angel investor or group ☐ Non-corporate institutional venture capital/seed stage funding ☐ Corporate venture capital/seed stage funding ☐ Funding from foundations and non-profits ☐ Other:
65	ALL	**Incubator or Accelerator Support** [If item 1 (involvement with I-Corps project) response is "yes, I continued to be involved with the project" AND Item 3 (whether project is active) response is "Yes"] Has your [I-Corps] project participated in or received non-financial incubator or accelerator support? o Yes o No
66	I-Corps	[If response to Item 65 (non-financial incubator or accelerator support) is "yes"] Please list the incubators or accelerators your I-Corps project has been affiliated with. ▪ Name _____ ▪ Dates affiliated _____ ▪ Description _____

67	ALL	[If response to Item 65 (non-financial incubator or accelerator support) is "yes"] Please check the types of support your [I-Corps] project has received from incubators or accelerators. ☐ Physical office space ☐ Wet labs/bench space ☐ Training and/or mentorship ☐ Access to investment network(s) ☐ Other:
68	I-Corps	[If item 1 (involvement with I-Corps project) response is "yes, I continued to be involved with the project" AND Item 3 (whether project is active) response is "No"] Did your I-Corps project participate in or receive non-financial incubator or accelerator support? o Yes o No
69	I-Corps	[If response to item 68 (past non-financial incubator or accelerator support) is "Yes"] Please list the incubators or accelerators your I-Corps project was affiliated with. ▪ Name _____ ▪ Dates affiliated _____ ▪ Description _____
70	I-Corps	[If response to item 69 (past non-financial incubator or accelerator support) is "Yes"] Please check the types of support your I-Corps project received from incubators or accelerators. Physical office space Wet labs/bench space Training and/or mentorship Access to investment network(s) Other:
71	ALL	**Sales of new products, Services, or Processes** [If item 1 (involvement with I-Corps project) response is "yes, I continued to be involved with the project"] Are there any products, services, or processes in the market, market ready, or awaiting regulatory approval whose commercialization you can attribute (to some degree) to your [participation in I-Corps/ NSF project]? o Yes o No
72	ALL	[If response to item 71 (commercialization) Is "Yes"] Please enter the following information about products, services or processes. ▪ Describe Product ▪ Status ▪ Number of units sold (if any) ▪ Amount of sales in last fiscal year ▪ Amount of sales since commercialization
	I-Corps	**Regulatory Approval** [If response to company sector is "Healthcare/Medical" and company is active] How many regulatory filings do you have for your I-Corps at NIH technology? Enter "0" if none.

	I-Corps	[If response to # of regulatory filings is >0] Select the options that best describe the regulatory approval process of the technology from your I-Corps at NIH course.

	Planned	Submitted	Approved	Rejected	Not applicable
Premarket Approval (PMA)					
501(k) Premarket Notification					
Investigational Device Exemption (IDE)					
Biologics License Application (BLA)					
Investigational New Drug Application (IND)					
New Drug Application (NDA)					
FDA facility regulations					
European Conformity (CE) Mark					
Other					

	I-Corps	[If response to # of regulatory filings is >0] Please describe the other types of regulatory approval your technology from the I-Corps at NIH course has applied for. Open-ended

	I-Corps	**Reimbursement Approval** [If response to # of regulatory filings is >0] Select the options that best describe the reimbursement approval status of the technology you worked on in the I-Corps at NIH course. Horizontal scale: Planned, Submitted, Approved, Rejected, Not applicable Centers for Medicare & Medicaid Services (CMS) Private payer

	I-Corps	**Clinical Trials** [If response to company sector is "Healthcare/Medical" and company is active] How many clinical trials has the technology you worked on in the I-Corps at NIH course had?

	I-Corps	[If response to company sector is "Healthcare/Medical" and company is active] Please check the boxes that best describe the status of clinical trials for the technology you worked on in your I-Corps at NIH course.

	Planned	Ongoing	Completed	Not applicable
Phase I clinical trial				

Phase II clinical trial				
Phase III clinical trial				
Premarket approval (PMA) device trial				
Phase IV Postmarketing study				
Outside of the United States (OUS)				

	I-Corps	[If response to company sector is "Healthcare/Medical" and company is active] Please describe clinical trials you have conducted for the technology you worked on in your I-Corps at NIH course.
	I-Corps	**Publications** ["If response to item 13 (whether company is active) is "yes"] Please indicate the number of times the company name has been affiliated with a peer-reviewed publication: Numeric: open

	I-Corps	[If response to the number of times the company name has been affiliated with a peer-reviewed publication is >0]
		Have any of these publications resulted from development of the technology supported by I-Corps?
		   o Yes
		   o No

74	ALL	**Licensing**
		[If item 1 (involvement with I-Corps project) response is "yes, I continued to be involved with the project"]
		[After your I-Corps course ended], was licensing revenue generated from the product, service or process you developed?
		   o Yes
		   o No

75	ALL	[If response to item 74 (any licensing revenue generated) is "Yes"] Please estimate the amount of licensing revenue generated from products, services or processes. Numeric field
76	ALL	[If response to item 75 (licensing revenue amount) is >0] Please estimate the percentage of total revenue gained from licensing. Numeric Field

		New Ventures

	I-Corps	[If item 1 (involvement with I-Corps project) response is "yes, I continued to be involved with the project" AND Item 3 (whether project is active) response is "Yes"]
		
		Did your team's work on your I-Corps technology result in a spin-off or spin-offs?
		Help text: A spin-off is when a company splits off a portion of itself to form a new company.
		
		    o Yes
		    o No

	I-Corps	[If response to whether the team's work resulted in spin-offs is "yes"] Please share some details on any spin-offs from your I-Corps technology below. <table><tr><td></td><td>Name</td><td>Website</td><td>Incorporation date</td></tr><tr><td>Spin-off 1</td><td></td><td></td><td></td></tr><tr><td>Spin-off 2</td><td></td><td></td><td></td></tr><tr><td>Spin-off 3</td><td></td><td></td><td></td></tr><tr><td>Spin-off 4</td><td></td><td></td><td></td></tr></table>

77	ALL	Are you currently pursuing a new venture?
		    o Yes
		    o No

78	I-Corps	[If response to item 77 (new venture) is "Yes"] What is the name of this new venture? Text box

79	I-Corps	[If response to item 77 (new venture) is "Yes"]
		Are you using Osterwalder's Business Model Canvas in your new venture?
		    o Yes
		    o No

80	I-Corps	[If response to item 77 (new venture) is "Yes"]
		Are you using the customer discovery process in your new venture?
		    o Yes
		    o No

81	I-Corps	**Other Outcomes**
		[If Time 1 response]
		In 2014, you gave us the following information on entrepreneurial curricula you had developed since participating in the I-Corps course:
		
		Course number: [TIME 1 RESPONSE]
		Course title: [TIME 1 RESPONSE]
		Course description: [TIME 1 RESPONSE]
		
		Have you developed any additional entrepreneurial curricula?
		    o Yes
		    o No

82	ALL	[For all respondents with no Time 1 response to this question.]
		[Since participating in the I-Corps course], have you developed any entrepreneurial curricula?
		    ○ Yes
		    ○ No

83	I-Corps	[If response to item 82 (entrepreneurial curricula developed) is "Yes" Or updating Time 1 response] Please share the course number (if possible), title, and brief description of the course(s). Course number Course title Organization Course description

84	ALL	Did the [I-Corps/ NSF] award lead to any collaborations between you and the external community?
		    ☐ Industry
		    ☐ Investors
		    ☐ Local or state government
		    ☐ Non-profit organization
		    ☐ Other

85	ALL	[If response is "Yes "for "Other" in item 84 (individual collaborations)] Please identify any other collaborations between you and the external community.
86	ALL	[If response is "Yes "for "Industry" in item 84 (individual collaborations)] Please describe your industry collaboration(s).

87	ALL	[If response is "Yes "for "Industry" in item 82 (individual collaborations)]
		What do you gain from your collaborations with industry?
		    ○ Opportunities to advance the commercialization of your research
		    ○ Opportunities to advance your research agenda
		    ○ Neither of the above

88	ALL	Did the [I-Corps/NSF] award lead to any collaborations between the university you are currently affiliated with and the external community?
		    ○ Yes
		    ○ No
		    ○ I am no longer affiliated with a university

89	ALL	[If response is "Yes" for item 86 (university collaborations)]
		Which of the following collaborations between the university you are currently affiliated with and the external community did the [I-Corps/ NSF] award lead to?
		    ○ Industry
		    ○ Investors
		    ○ Local or state government
		    ○ Non-profit organization
		    ○ Other

90	ALL	[If response is "Yes" for "Other" in item 89 (types of university collaborations)] Please identify any other collaborations between your university and the external community.

91	I-Corps	**Opportunities**
		Which, if any, of the following did you personally experience as a result of your interactions during the [COURSE YEAR, SEASON, AND NODE] I-Corps course? Multiple choice
		   o Customer interviews
		   o Instructor engagements
		   o Interactions with your team's EL(s) or PI(s)
		   o Interactions with your team's mentor(s)
		   o Interactions with other teams' ELs or PIs
		   o Interactions with other teams' mentors
		   o Other interactions

92	I-Corps	Please describe:

93	I-Corps	Which, if any, of the following did your team receive as a result of interactions during the [COURSE YEAR, SEASON, AND NODE] I-Corps course? Multiple choice.
		   o Customer interviews
		   o Instructor engagements
		   o Interactions with your team's EL(s) or PI(s)
		   o Interactions with your team's mentor(s)
		   o Interactions with other teams' ELs or PIs
		   o Interactions with other teams' mentors
		   o Other interactions

94	I-Corps	Please describe:

95	I-Corps	**Current Employment**
		Do you currently work for a college or university?
		   o Yes
		   o No
		   o Not currently employed

96	I-Corps	[If response to item 95 (whether currently working for college or university) is "Yes"]
		Do you currently work for [PERSONAL INSTITUTION AT REGISTRATION]?
		   o Yes, I am primarily employed at a college or university.
		   o Yes, I work at a college or university as well as a private company.
		   o No, I work outside of academia.
		   o No, I am not currently employed.

97	I-Corps	[If response to item 95 (whether currently working for college or university) is "Yes, I am primarily employed at a college or university" or "Yes, I work at a college or university as well as a private company."]
		Which of the following best describes your current role? Multiple choice.
		   o Tenured faculty member
		   o Faculty member on track for Tenure and Promotion
		   o Non-tenured Faculty
		   o Non-traditional university appointment (e.g., Professor of Practice, Visiting Scholar, etc.)
		   o Research scientist
		   o University Leader (Dean, Provost, etc.)
		   o Administrative Staff (Academic Advisor, Center Director, etc.)
		   o Student
		   o Other:

98	I-Corps	[If response to item 95 (whether currently working for college or university) is "No, I work outside of academia." or "Yes, I work at a college or university as well as a private company."]
		Which of the following best describes your current employer's primary industry?
		   o Agriculture
		   o Education
		   o Energy & Materials
		   o Environment
		   o Healthcare/Medical
		   o Information Technology and Communications
		   o Infrastructure/Building
		   o Sanitation/Water
		   o Not applicable
		   o Other

99	I-Corps	[If response to item 95 (whether currently working for college or university) is "No, I work outside of academia." or "Yes, I work at a college or university as well as a private company."]
		Which of the following best describes your current employer's company size?
		   o 1-10 employees
		   o 11-50 employees
		   o 51-200 employees
		   o 201-500 employees
		   o 501-1000 employees
		   o More than 1000 employees
		   o Other

100	I-Corps	[If response to item 95 (whether currently working for college or university) is "Yes, I am primarily employed at a college or university." Or "Yes, I work at a college or university as well as a private company." or "No, I work outside of academia."]
		Did your work in I-Corps lead to your current employment?
		   o Yes
		   o No
		   o Unsure

101	I-Corps	[If response to item 100 (work in I-Corps leading to current employment) is "Yes" or "Unsure"] Please explain:

102	I-Corps	[If response to item 95 (whether currently working for college or university) is "No" or "Yes" (that is, if respondent indicated that they are employed)] In what ways, if any, has I-Corps influenced your career? Text Box
103	I-Corps	**Other I-Corps Experiences** Have you participated in another national I-Corps team in addition to [TEAM NAME]? ○ Yes ○ No
104	I-Corps	[If response to item 103 (other national team participation) is "Yes"] Please share some information on the other team(s) you have participated in. Team name(s) Team company(ies) Which course(s) attended
105	I-Corps	[If response to item 103 (other national team participation) is "Yes"] Did the team(s) raise any government funding? Please describe, including funding type (SBIR, PFI:AIR TT, etc.)
106	I-Corps	[If response to item 103 (other national team participation) is "Yes"] Did the team(s) raise any private funding? Please describe.
107	ALL	**Anything Else** Thanks for your responses! Is there anything else you would like us to know about your [I-Corps/ commercialization] experience that wasn't captured by this survey?
	ALL	**Demographics** What is your current gender identity? ○ Male ○ Female ○ Another identity ○ Prefer not to answer
	ALL	What is your date of birth? Date dropdown (month, day, year) Help text: If you prefer not to answer, please leave the field blank.
	ALL	What is your race? (Select one or more) American Indian or Alaska Native ○ Asian ○ Black or African American ○ Native Hawaiian or Other Pacific Islander ○ White ○ Other ○ Prefer not to answer
	ALL	Are you of Hispanic, Latino, or Spanish origin? ○ Yes ○ No ○ Prefer not to answer

	ALL	How do you describe your country of national identification? Country dropdown Help text: National identification is defined as the country with which you primarily associate.

	ALL	Have you ever served on active duty in the U.S. Armed Forces, Reserves, or National Guard?
		   o Never served in the military
		   o Only on active duty for training in the Reserves or National Guard
		   o Now on active duty
		   o On active duty in the past, but not now
		   o Prefer not to answer

	ALL	Please select yes if any of the following apply to you.
		- Deaf or serious difficulty hearing
		- Blind or serious difficulty seeing even when wearing glasses
		- Serious difficulty walking or climbing stairs
		- Other serious disability related to a physical, mental, or emotional condition
		   ☐ Yes
		   ☐ No
		   ☐ Prefer not to answer