

TABLE 1

Data elements used for matching

(Variable)

Data source	Variable name	Description	Match step used in
Person information			
SDR	E-mail (up to 15 values per respondent)	E-mail addresses associated with the respondent; the data quality is unknown ^a	1, 2, 3, 11
SDR	DRFLNAME	Last name of respondent recorded in the doctoral records file (i.e., when the respondent received the PhD)	All
SDR	LNAME15	Last name of respondent recorded in the 2015 survey file	All
SDR	DRFFNAME	First name of respondent recorded in the doctoral records file (i.e., when the respondent received the PhD)	2 - 9
SDR	FNAME15	First name of respondent recorded in the 2015 survey file	2 - 9
NSF grants database	E-mailAddress	E-mail address of investigator	1, 2, 3, 11
NSF grants database	LastName	Last name of investigator	All
NSF grants database	FirstName	First name of investigator	2 - 11
Location information			
SDR	EMZIP	Employer ZIP code	4
NSF grants database	ZIP5	Institution ZIP code	4, 5, 6
SDR	ZIP15	Individual ZIP code in 2015	5
SDR	DRFZIP	Individual ZIP code at time of PhD	6
SDR	EMCITY	Employer city	7
NSF grants database	CityName	Institution city	7, 8, 9
SDR	CITY15	Individual city in 2015	8
NSF grants database	StateCode	Institution state	8
SDR	STATE15	Individual state in 2015	8
SDR	DRFadd	Individual city at time of PhD	9
SDR	EMNAME	Employer name	10
NSF	NAME	Institution name	10, 11

NSF = National Science Foundation; SDR = Survey of Doctorate recipients.

^a Initially, it was assumed that these e-mail addresses were the e-mail addresses the survey contractor used to communicate with the respondent, making it a very high-quality data element. However, during the matching process, it was observed that some e-mail addresses were clearly for other individuals besides the respondent. These e-mails may be connected to the alternate contacts in the record or co-principal investigators on grants.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2015, linked to the public NSF Awards Database (<https://www.nsf.gov/awardsearch/download.jsp>).