

UNITED STATES OF AMERICA  
GENERAL SERVICES ADMINISTRATION

*National Archives and Records Service*  
Washington, DC 20408



1971 Engineer's Employment Survey

Table of Contents

Tape Specifications (Information refers to tapes in original offer) .....	359
1971 Engineers Employment Survey .....	360
Record Layout .....	361
EJC Unified Mail List .....	369

Location of Other Codes  
Referred to in Record Layout

State Codes and Abbreviations .....	374
Standard Metropolitan Statistical Area .....	423
Geographic Areas of the World.....	391



*Keep Freedom in Your Future With U.S. Savings Bonds*

000358

TAPE SPECIFICATIONS

POPULATION: Respondents to the 1971 Engineers  
Employment Survey

RECORD COUNT: 59,321

FORMAT: Fixed blocked

BLOCKSIZE: 2680

RECORD SIZE: 268

BLOCKING FACTOR: 10

TAPE LABEL: Standard 80 byte tape label and tape mark precedes  
first record IBM 360 - 30 TOS

Two tape marks at end of file

9-Track single density 800 BPI tape

000359

1971 ENGINEERS EMPLOYMENT SURVEY

\* NOTE: Residence or employment addresses

Foreign - If residence or employment is in a foreign country, the foreign country name is in city field leaving state and zipcode blank.

\*\* NOTE: Standard Metropolitan Statistical Areas

Foreign - If residence or employment is in a foreign country, the foreign area code is preceded by a '9'. Example: 9418 - Japan  
(See SMSA and foreign area code list)

000360

# DESCRIPTION OF 1971 ENGINEERS EMPLOYMENT SURVEY

TAPE FRAME	POPULATION	DESCRIPTION
1-6	A11-	NRRC Control
7-20	A11	EJC Control
21-23	A11	Change Indicators ( NRRC use only)
24-52	A11	NAME
24-38		Last Name
39-48		First Name
49		Middle Initial
50-52		Suffix
53-72	A11	* RESIDENCE ADDRESS
53-65		City
66-67		State
68-72		Zip Code
73-76	A11	** 1971 STANDARD METROPOLITAN STATISTICAL AREA (Of residence city and state)
77-138	A11	RESIDENCE ADDRESS
77-107		Address 1
108-138		Address 2
139	A11	NUMBER OF LINES OF ADDRESS
		1 = Address 1 only
		2 = Addresses 1 and 2
		Ø = No street address
140	A11	BIRTH MONTH
		Jan = 1      Jul = 7
		Feb = 2      Aug = 8
		Mar = 3      Sep = 9
		Apr = 4      Oct = 0
		May = 5      Nov = ~
		Jun = 6      Dec = &

000361

TAPE FRAME	POPULATION	DESCRIPTION
141-142	All	BIRTH DAY
143-144	All	BIRTH YEAR 1948 = 48; 1936 = 36; 1898 = 98, etc.
145	All	CITIZENSHIP 1 = U.S. Citizen 2 = Non-U.S.
146	All	SEX 1 = Male 2 = Female
147-148	All	YEAR OF FIRST DEGREE (See Birth Year)
149-150	All	CURRICULUM OF FIRST DEGREE 01 = Aerospace Engineering 02 = Agricultural Engineering 03 = Automation/Control 04 = Chemical Engineering 05 = Civil Engineering 06 = Communications 07 = Computer/Mathematics 08 = Education 09 = Electrical Engineering 10 = Electronics Engineering 11 = Engineering (general) 12 = Engineering Sciences 13 = Environmental/Sanitary Engineering 14 = Geological Engineering 15 = Industrial Engineering 16 = Management/Business Administration 17 = Manufacturing Engineering 18 = Mechanical Engineering 19 = Metallurgical Engineering 20 = Mining Engineering 21 = Naval Arch/Marine Engineering 22 = Nuclear Engineering 23 = Petroleum Engineering 24 = Plant/Facilities Engineering 25 = Product Engineering 26 = Science (basic) 27 = Systems Engineering 28 = Transportation Engineering 29 = Other Engineering 30 = Other Nonengineering

000362

TAPE FRAME	POPULATION	DESCRIPTION
151	A11	LEVEL OF HIGHEST DEGREE 1 = None 2 = Associate 3 = Bachelor 4 = Master 5 = Doctor
152-153	A11	YEAR OF HIGHEST DEGREE (See Birth Year)
154-155	A11	CURRICULUM OF HIGHEST DEGREE (See Curriculum of First Degree codes)
156	A11	STUDENT STATUS 1 = Student, full-time 2 = Student, part-time
157	A11	REGISTERED ENGINEER 1 = Yes, PE 2 = Yes, EIT 3 = No
158	A11	EMPLOYMENT STATUS 1 = Employed full-time, engineering related 2 = " " nonengineering related 3 = Employed, part-time, engineering related 4 = " " nonengineering related 5 = Unemployed and seeking employment 6 = Not employed and not seeking employment 7 = Retired
159	1971 Employment Status 3 or 4	PART-TIME EMPLOYED, SEEKING FULL-TIME EMPLOYMENT 1 = Yes 2 = No
160-162	A11	DATE BEGAN CURRENT EMPLOYMENT STATUS
160		Month (See Birth Month)
161-162		Year (See Birth Year)
163	A11	POPULATION A = Engineering related employed, prior to March 1970 B = Nonengineering " " " " C = Not employed and not seeking D = Retired E = Engineering related employed, since March 1970 F = Nonengineering " " " " G = Not employed and seeking

000363

TAPE FRAME	POPULATION	DESCRIPTION
164	1971 Employment Status 1,2,3,4,5	UNEMPLOYED AT ANY TIME SINCE MARCH 1, 1970  1 = Yes 2 = No
165-166	1971 Employment Status 1,2,3,4,5	WEEKS UNEMPLOYED SINCE MARCH 1, 1970
167-186	EMPLOYED IN NONENGINEERING RELATED POSITION (1971 Employment Status 2 or 4)	
167		KIND OF WORK  1 = Written response 2 = Positive 'no' response
168		REASON FOR BEING IN NONENGINEERING POSITION  1 = I am not an engineer 2 = Prefer nonengineering related position 3 = Promoted out of engineering 4 = Pay is better 5 = Locational preference 6 = Length of time away from engineering 7 = Engineering related position not available 8 = Other
169-183		* EMPLOYMENT ADDRESS
169-181		City
182-183		State
184-186		LEFT LAST ENGINEERING EMPLOYMENT
184		Month (See Birth Month)
185-186		Year (See Birth Year)
187	1971 Employment Status 5	TYPE OF POSITION SEEKING  1 = Full-time 2 = Part-time 3 = Temporary

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TAPE FRAME	POPULATION	DESCRIPTION
		EMPLOYED IN ENGINEERING RELATED POSITION (1971 Employment Status 1 or 3)
188-189		TYPE OF EMPLOYER
		00 = Private industry or business
		01 = Self-employed
		02 = College or university
		03 = Junior college or technical institute
		04 = Secondary, elementary, or other school
		05 = Nonprofit organization, other than a school
		06 = Federal Government - civilian employee
		07 = Military Service, CC of USPHS or NOAA
		08 = State Government
		09 = Local Government
		10 = Other
190-204		* EMPLOYMENT ADDRESS
190-202		City
203-204		State
205-206		FIELD OF SPECIALIZATION
		01 = Aerospace Engineering
		02 = Agricultural Engineering
		03 = Automation/Control
		04 = Chemical Engineering
		05 = Civil Engineering
		06 = Communications
		07 = Computer/Mathematics
		08 = Education (general)
		09 = Electrical Engineering
		10 = Electronics Engineering
		11 = Engineering (general)
		12 = Engineering Sciences
		13 = Environmental/Sanitary Engineering
		14 = Geological Engineering
		15 = Industrial Engineering
		16 = Management/Business Administration
		17 = Manufacturing Engineering
		18 = Mechanical Engineering
		19 = Metallurgical Engineering
		20 = Mining Engineering
		21 = Naval Arch/Marine Engineering
		22 = Nuclear Engineering
		23 = Petroleum Engineering
		24 = Plant/Facilities Engineering
		25 = Product Engineering
		26 = Science (basic)
		27 = Systems Engineering
		28 = Transportation Engineering
		29 = Other Engineering
		30 = Other Nonengineering

000365

TAPE FRAME	POPULATION	DESCRIPTION
207-208		PRODUCT OR SERVICE  01 = Agriculture and Food 02 = Aircraft and Space 03 = Ceramics 04 = Chemicals/Allied Products 05 = Communications Services 06 = Computers 07 = Construction/Civil Engineering 08 = Education & Information Services 09 = Electrical Equipment 10 = Electronic Equipment 11 = Machinery/Mechanical Equipment 12 = Marine Transportation 13 = Metals- (basic) 14 = Metal Fabricated Products 15 = Mining 16 = Motor Vehicles 17 = Ordnance 18 = Petroleum 19 = Rail Transportation 20 = Utilities 21 = Other
209		MANAGER OF JOB FUNCTION  1 = Manager
210-211		JOB FUNCTION  01 = Administration 02 = Consultation 03 = Construction 04 = Design 05 = Development 06 = Engineering (general) 07 = Planning 08 = Production 09 = Research 10 = Sales and Service 11 = Teaching 12 = Other
212-213		AREA  01 = Health 02 = Public Works 03 = Urban Development 04 = Pollution 05 = Defense 06 = Space 07 = Transportation 08 = Atomic Energy 09 = Industrial Products/ Processes 10 = Education 11 = Consumer Products 12 = Other

000366

TAPE FRAME	POPULATION	DESCRIPTION
214		WORK SUPPORTED BY GOVERNMENT FUNDS Y = Yes (see percent) N = No D = Don't know
215		PERCENT OF GOVERNMENT SUPPORT 4 = 1-25% 5 = 26-50% 6 = 51-75% 7 = 76-100% 8 = Don't know
216	1971 Employment Status 1,2,3,4	RECEIVED NOTICE THAT POSITION WILL TERMINATE PRIOR TO: 1 = July 1, 1971 2 = Jan. 1, 1972 3 = July 1, 1972
217	1971 Employment Status 1,2,3,4,5	1970 EMPLOYMENT STATUS (See codes listed under 1971 Employment Status)
1970 EMPLOYMENT DATA - 1970 EMPLOYMENT STATUS 1,2,3,4,5 - See codes previously listed		
218-219		TYPE OF EMPLOYER
220-234		* EMPLOYMENT ADDRESS
220-232		City
233-234		State
235-238		* * 1970 STANDARD METROPOLITAN STATISTICAL AREA (Of employment city and state)
239-240		FIELD OF SPECIALIZATION
241-242		PRODUCT OR SERVICE
243		MANAGER OF JOB FUNCTION
244-245		JOB FUNCTION
246-247		AREA

000367

TAPE FRAME	POPULATION	DESCRIPTION
248		WORK SUPPORTED BY GOVERNMENT FUNDS
249		PERCENT OF GOVERNMENT SUPPORT
250	ALL	SOCIETY MEMBERSHIP INDICATOR
251-266	ALL	* = EJC Indicator SOCIETY MEMBERSHIP Respondent could report as many as 16 society memberships. (See society membership code list)
267	ALL	DUPLICATE INDICATOR D = Duplicate
268	ALL	DELETE INDICATOR D = Not included in NRRC tabulations

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