NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES, 1994

APPENDIXES

Prepared by:

Oak Ridge Institute for Science and Education
Science/Engineering Education Division
Analysis and Evaluation Programs
Labor and Policy Studies Group
Oak Ridge, Tennessee 37831-0117

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APPENDIX A. STATISTICAL TABLES

APPENDIX A-1
NUCLEAR ENGINEERING
DEGREES GRANTED BY INSTITUTION, 1984-1994

B = Bachelor's
M = Master's
D = Doctoral

State and Institution	July - June -	1983 1984			1984 1985			1985 1986			1986 1987			1987 1988			1988 1989			1989 1990			1990 1991			1991 1992			1992 1993			1993 1994						
		B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D							
Alabama																																						
University of Alabama		4		-	3		-	1		1		1		6		3		1		2		2		Suspended														
Arizona																																						
Arizona State University (see note)		6		-	3		1	-	6		1		5		-	10		2		4		-	4		-	6		2		2		-	2		-	3		-
University of Arizona		14	6	1	16	7	2		10	8	2	9	5	1	6	8	3	6	6	-	7	4	3	5	7	3	12	5	3	15	7	2	10	8	5			
Arkansas																																						
University of Arkansas			4	1		3	1		2	-	-	2		1	1		1	1		-	-	-		1	2	-	4	1	-	3	1							
California																																						
California State University, Northridge		6*	1*		6*	2*		5	-	Suspended																												
Stanford University				1	Suspended																																	
University of California, Berkeley		11	9	5	15	14	1	15	22	3	17	22	4	23	6	8	12	6	9	12	5	6	15	5	8	13	7	4	8	12	8	18	7	7				
University of California, Los Angeles (see note)		-	15	7	1	5	6		3	6	8	7	2	-	7	4	3	8	12	4*	4	12	-	4	9	-	3	3	-	4	4	-	1	2				
University of California, Santa Barbara (see note)		5	4	-	12	5	-	8	2	-	7	5	2	7	2	4	11	4	3	14	2	3	7	3	-	8	-	-	7	1	-	5	1					
District of Columbia																																						
Catholic University of America		2	2		1	Suspended																																
Howard University		1			2			1		-		-		1		2		Inactive																				

*Estimated.

NOTES: (Applicable to all pages of Appendix A-1.) Some of the numbers shown here have been changed from previously published reports, as adjustments to historical data have been collected and reported periodically. Dashes indicate enrollments, but no degrees granted at that degree level during the year.

Arizona State University's program has been suspended. Students are being allowed to complete their degrees.

University of California at Los Angeles is unable to report BS degrees, or estimate with any accuracy, at the present time.

The nuclear emphasis at the University of California, Santa Barbara has been suspended. Students are being allowed to complete their degrees.

APPENDIX A-1 (Continued)

State and Institution	July - June -	1983 1984			1984 1985			1985 1986			1986 1987			1987 1988			1988 1989			1989 1990			1990 1991			1991 1992			1992 1993			1993 1994		
	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D				
Florida																																		
University of Florida, Gainesville	27	6	4	15	5	2	17	3	-	17	3	1	18	1	2	23	11	3	15	10	1	20	11	3	24	13	7	15	19	7	27	7	8	
Georgia																																		
Georgia Institute of Technology (see note)	16	10	3	36	13	2	23	10	-	13	8	1	13	5	2	11	7	2	12	14	2	11	8	4	7	11	3	7	4	4	12	4	9	
Idaho																																		
Idaho State University (see note)	-	3		4	1		10	4		4	4		2	1		5	2	-	7	5	-	4	3	-	4	2	-	6	2	-	6	1	-	
University of Idaho/INEL (see note)	16	6	-	-	3	-	20	1	-	NA	4*	-	2*	-		3*	-		3*	-		-	-		-	-		2	-		1	-		
Illinois																																		
Northwestern University	4	-	-	5		1	9		-			-			1	Suspended																		
University of Illinois, Urbana	20	13	10	24	14	5	20	8	6	13	15	6	20	16	5	17	17	5	14	14	8	19	13	4	15	10	7	22	10	9	19	15	5	
Indiana																																		
Purdue University	22	8	1	20	7	2	24	10	9	23	11	3	10	5	4	12	2	4	10	3	4	3	2	4	9	4	1	8	11	2	8	4	3	
University of Notre Dame	10			9			7			12			1			6			4			3			3			4			4			
Iowa																																		
Iowa State University (see note)	12	3	2	21	12	1	15	1	1	12	5	1	8	5	4	7	4	5	5	2	3	8	3	-	5	3	-	3	3	1	3	2	-	
Kansas																																		
Kansas State University	17	2	-	9	7	-	11	2	1	6	6	3	5	1	1	7	2	-	4	5	1	4	2	1	9	3	2	9	-	1	15	4		

* Estimated.

NOTES: Georgia Institute of Technology has recently reclassified their Ph.D. health physics degrees to nuclear engineering degrees.

The data for the Idaho State University and the University of Idaho include students in the Joint Nuclear Engineering Program which is a cooperative venture with the Idaho National Engineering Laboratory that began in 1989.

Iowa State University's undergraduate program has been suspended. Last degrees granted in 1994.

APPENDIX A-1 (Continued)

State and Institution	July - June -	1983 1984	1984 1985	1985 1986	1986 1987	1987 1988	1988 1989	1989 1990	1990 1991	1991 1992	1992 1993	1993 1994
		B M D	B M D	B M D	B M D	B M D	B M D	B M D	B M D	B M D	B M D	B M D
Kentucky												
University of Kentucky		4 -	4 1	6 2	6 1	5 1	5* 1*	2 -	2 -	3	4*	4
Louisiana												
Louisiana State University		2 8	2	-	2	2	4 -	- -	- -	2 -	1 1	2 -
Maine												
University of Maine		13	14 -	2 -	3 -	1 -	6 1 1	3 - -	3	-	1	3
Maryland												
U.S. Naval Academy		29	20	19	11	20	16	15	15	18	16	15
University of Maryland		11 4 -	18 2 4	11 4 3	12 5 3	7 - 2	6 5 -	9 7 3	8 5 3	9 4 3	14 5 2	3 2 2
University of Maryland University College	Began in '84	-	-	-	-	-	-	5	3	18	41	62
Massachusetts												
Massachusetts Institute of Technology		8 40 29	2 28 18	9 30 30	2 32 20	3 26 13	4 28 13	8 24 19	2 27 20	1 26 20	- 18 23	5 22 19
University of MA Lowell		12 3 -	12 4 -	6 5 1	10 3 -	10 3 -	11 7 -	14 1 1	6 2 -	8 2 1	6 4 2	3 4 1
Worcester Polytechnic Institute		-	1	2	9 -	- 1	4	5	8	5	6	8
Michigan												
University of Michigan		39 14 11	21 14 11	28 22 6	19 19 9	19 21 12	16 21 5	8 13 13	14 16 18	12 11 13	5 13 4	12 15 10
Mississippi												
Mississippi State University (see note)		10 1	6	6	4 -	8 -	7 1	4 1	2 -	5 -	3 -	7 2
Missouri												
University of Missouri, Columbia		5 1	7 5	5 3	2 1	3 3	5 3	6 1	5 -	4 2	11 3	6 -
University of Missouri, Rolla		8 1 1	5 3 2	13 4 1	10 4 -	8 4 -	9 4 1	5 2 -	7 1 -	8 4 -	11 - 1	8 2 -

*Estimated.

NOTE: Mississippi State University's program has been suspended. Students are being allowed to complete their degrees.

APPENDIX A-1 (Continued)

July - June -	1983 B M D	1984 B M D	1985 B M D	1986 B M D	1987 B M D	1988 B M D	1989 B M D	1990 B M D	1991 B M D	1992 B M D	1993 B M D
Nebraska											
University of Nebraska	2	Suspended									
New Jersey											
New Jersey Institute of Technology	11*	9	14	12	-	4	1	Inactive			
Stevens Institute of Technology	1	4	1	1	2	2	1	2	1	1	1
New Mexico											
University of New Mexico	6	2	4	5	4	6	3	1	3	5	7
New York											
Clarkson University	14	12	11	16	10	8	7	9	8	10	9
Columbia University	4	3	2	2	1	1	1	2	1	1	1
Cornell University	1	1	2	2	1	1	1	2	1	1*	2*
Manhattan College	11	8	6	8	14	20	10	12	7	11	6
Polytechnic Institute of New York	3	10	1	Suspended	18	12	26	16	24	21	19*
Rensselaer Polytechnic Institute	18	7	12	18	13	7	9	11	8	5	8*
State Univ. of New York Maritime College	6	10	9	20	17	7	18	18	10	Suspended	7*
U.S. Military Academy	13	22	7	13	23	20	18	11	10	12	25
North Carolina											
North Carolina State University	16	6	3	18	4	5	11	7	7	17	11
Ohio											
Air Force Institute of Technology	11	4	13	11	11	9	6	12	10	7	3
Case Western Reserve University	4	20	2	Suspended	-	8	9	8	8	6	6
Ohio State University	-	7	7	8	10	9	9	5	6	13	3
University of Cincinnati	19	12	23	8	17	20	14	15	13*	12	14
Youngstown State University	43	14	13	19	8	-	12	17	9	9	22
Oklahoma											
University of Oklahoma	5	2	1	1	Suspended						

*Estimated.

APPENDIX A-1 (Continued)

State and Institution	July - June -	1983 1984			1984 1985			1985 1986			1986 1987			1987 1988			1988 1989			1989 1990			1990 1991			1991 1992			1992 1993			1993 1994		
		B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D	B	M	D			
Oregon																																		
Oregon State University		13	2	-	12	3	1	15	4	1	7	5	-	15	3	-	14	4	2	14	1	3	12	3	3	12	4	1	15	6	1	9	9	1
Pennsylvania																																		
Carnegie-Mellon University		-	-		1	1		1	1		-			-			Suspended																	
Pennsylvania State University		37	11	2	41	7	4	39	12	4	29	16	2	23	7	1	31	15	2	33	12	3	20	8	6	11	5	6	17	7	3	12	13	3
Tennessee																																		
Tennessee Technological University		4			3			-			1			4			3			4			5			8			8	-		8	-	
University of Tennessee, Knoxville		14	5	2	23	8	4	14	5	1	8	3	3	8	5	-	3	5	2	4	4	6	12	6	5	11	7	5	13	6	8	5	11	-
Texas																																		
Texas A&M University		29	8	2	20	7	4	26	12	3	18	10	2	18	7	2	10	20	3	8	17	7	12	11	2	14	6	9	10	14	7	10	10	2
University of Texas, Austin		-	2	1	-	4	1	-	-	-	12*	-	1	10*	1	2	9	5	-	5*	-	-	5*	2	-	-	1	-	1	1	-	1	1	
Utah																																		
University of Utah		19	6	-	16	2	-	14	3	-	6	2	1	7	2	2	2	1	-	18	3	-	4	3	1	10	2	-	11	4	-	9	4	3
Utah State University		4*	1*	1*	5*	3*		4	1		5	-		7	1		7	1		6	1		Inapplicable											
Virginia																																		
University of Virginia (see note)		14	7	1	13	8	-	8	9	1	10	6	2	7	5	-	6	6	1	5	6	-	8	4	1	3	4	5	3	5	3	5	1	1
Virginia Polytechnic Institute & State Univ.		19	2	2	6	2		4	1	-	5	-	-	1	1	-	1	1	-			1	Suspended											
Washington																																		
University of Washington (see note)		17	3		15	1		13	1		-	7	3	9	4	5	5	6	1	8	6	1	5	4	3	2	2	1	-		1	1		
Wisconsin																																		
University of Wisconsin, Madison		9	17	13	20	17	12	18	15	11	20	18	7	19	12	12	18	9	10	15	5	7	18	17	8	19	18	7	10	24	1	14	17	12
TOTALS		660	316	132	612	306	113	572	295	120	503	295	97	484	232	114	451	287	102	433	220	133	412	222	122	384	212	135	411	256	121	453	234	115

*Estimated.

NOTES: The University of Virginia's undergraduate program has been suspended. Students are being allowed to complete their degrees.

The University of Washington's program has been suspended. Students are being allowed to complete their degrees

Source: U.S. Department of Energy.

APPENDIX A-2
TOTAL ENROLLMENT OF FULL-TIME AND PART-TIME STUDENTS IN NUCLEAR ENGINEERING
FALL 1984 THROUGH FALL 1994

FT = FULL-TIME
PT = PART-TIME

YEAR	UNDERGRADUATE						GRADUATE						TOTAL ENROLLMENT		
	JUNIORS			SENIORS			MASTER'S			DOCTORAL			FT	PT	TOTAL
	FT	PT	TOTAL	FT	PT	TOTAL	FT	PT	TOTAL	FT	PT	TOTAL			
1984	708	23	731	917	15	932	691	233	924	483	76	559	2799	347	3146
1985	680	25	705	804	16	820	601	234	835	499	83	582	2584	358	2942
1986	635	80	715	687	27	714	626	180	806	471	78	549	2419	365	2784
1987	602	91	693	679	21	700	611	181	792	529	84	613	2421	377	2798
1988	537	164	701	637	51	688	574	176	750	577	70	647	2325	461	2786
1989	533	182	715	643	56	699	606	151	757	601	69	670	2383	458	2841
1990	518	181	699	629	70	699	544	178	722	620	81	701	2311	510	2821
1991	445	242	687	556	139	695	559	225	784	593	106	699	2153	712	2865
1992	488	282	770	608	119	727	584	231	815	570	76	646	2250	708	2958
1993	477	213	690	580	115	695	559	216	775	591	97	688	2207	641	2848
1994	346	178	524	579	135	714	509	217	726	536	102	638	1970	632	2602

Source: U.S. Department of Energy

**APPENDIX A-3
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
IN SUBFIELDS BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION AND SUBFIELD	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Arizona											
Arizona State University Engineering Science, with Nuclear Option			3		2				3		
University of Arizona Nuclear Engineering	8	2	18	1	17	5	12	5	10	8	5
Arkansas											
University of Arkansas Mechanical, with Nuclear Option			2		3		1		3	1	
California											
University of California, Berkeley Nuclear Engineering	10		8		17		42		9	7	7
Electrical, with Nuclear Option	1		6						7		
Mechanical, with Nuclear Option	2		2						2		
University of California, Los Angeles Nuclear Engineering					7		14			1	2
Mechanical, with Nuclear Option	7		32								
University of California, Santa Barbara Nuclear Engineering			5		1				5	1	
Chemical, with Nuclear Option							2				
Mechanical, with Nuclear Option							1				
Materials, with Nuclear Option							2				
Florida											
University of Florida Nuclear Engineering	13		24		32	14	20	9	27	7	8

**APPENDIX A-3
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
IN SUBFIELDS BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION AND SUBFIELD	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Georgia											
Georgia Institute of Technology Nuclear Engineering	9		15	1	17	5	22	7	12	4	9
Idaho											
Idaho State University Nuclear Engineering					8	11	2	10	6	1	
General Engineering, with Nuclear Option	3	1	3								
University of Idaho/INEL Nuclear Engineering					1	2		1		1	
Illinois											
University of Illinois Nuclear Engineering	8		22		32	1	24		19	15	5
Indiana											
Purdue University Nuclear Engineering	18		12		18	1	14	4	8	4	3
University of Notre Dame Chemical, with Nuclear Option			3								
Electrical, with Nuclear Option									1		
Mechanical, with Nuclear Option	4		4						3		
Iowa											
Iowa State University Nuclear Engineering					5	1	7		3	2	

**APPENDIX A-3
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
IN SUBFIELDS BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION AND SUBFIELD	ENROLLMENTS - FALL 1994										DEGREES GRANTED			
	UNDERGRADUATE				GRADUATE									
	JUNIORS		SENIORS		MASTER'S		DOCTORAL							
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.	
Kansas														
Kansas State University Nuclear Engineering	3		25		8	1	5	1			15	4		
Kentucky														
University of Kentucky Mechanical, with Nuclear Option			3								4			
Louisiana														
Louisiana State University Nuclear Engineering Engineering Science, with Nuclear Option					4		3					2		
Maine														
University of Maine Physics, with Nuclear Option				5							3			
Maryland														
U.S. Naval Academy Marine, with Nuclear Option	18		13								15			
Univ. of Maryland University College Nuclear Science		174		117							62			
University of Maryland Nuclear Engineering	11		12	5	6	10	10	13			3	2	2	
Massachusetts														
Massachusetts Institute of Technology Nuclear Engineering	9		12		60		58				5	22		19

**APPENDIX A-3
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
IN SUBFIELDS BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION AND SUBFIELD	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
University of Massachusetts Lowell Nuclear Engineering	5		3		5	9	4		3	4	1
Worcester Polytechnic Institute Chemical, with Nuclear Option	1										
Mechanical, with Nuclear Option	11		9						8		
Michigan											
University of Michigan Nuclear Engineering	11		25	4	30	1	49	2	12	15	10
Mississippi											
Mississippi State University Nuclear Engineering			6	1					7	2	
Missouri											
University of Missouri, Rolla Nuclear Engineering	14		21		6		6		8	2	
University of Missouri-Columbia Nuclear Engineering					7	5	12			6	
New Jersey											
Stevens Institute of Technology Engineering or Applied Physics, with Nuclear Opt.	1		1		1	1			1	1	
New Mexico											
University of New Mexico Nuclear Engineering	5		9	2	13	14	15	17	5	7	3

**APPENDIX A-3
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
IN SUBFIELDS BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION AND SUBFIELD	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
New York											
Clarkson University											
Chemical, with Nuclear Option	6		5						8		
Mechanical, with Nuclear Option	1		1						1		
Civil, with Nuclear Option	1										
Columbia University											
Nuclear Engineering							1	4			1
Cornell University											
Nuclear Engineering					5	1	5			3	1
Manhattan College											
Mechanical, with Nuclear Option	2		8		3	38			6	11	
Rensselaer Polytechnic Institute											
Nuclear Engineering	18		21		12	5	20	3	19	8	7
United States Military Academy											
Nuclear Engineering	2		4						1		
Chemical, with Nuclear Option	17		9						8		
Math/Operations Research, with Nuclear Option			1								
Physics, with Nuclear Option	7		25						16		
North Carolina											
North Carolina State University											
Nuclear Engineering	15		31		22		29		11	14	1
Ohio											
Air Force Institute of Technology											
Nuclear Engineering					7		1			3	2

APPENDIX A-3
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
IN SUBFIELDS BY STATE AND INSTITUTION, 1994

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION AND SUBFIELD	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
The Ohio State University Nuclear Engineering Mechanical, with Nuclear Option	5		6		24	3	6	1	6	5	3
University of Cincinnati Nuclear Engineering	13		6		14	29	12	4	14	4	2
Youngstown State University Chemical, with Nuclear Option Electrical, with Nuclear Option	2		12						5 17		
Oregon											
Oregon State University Nuclear Engineering	5		11		5		6	2	9	9	1
Pennsylvania											
The Pennsylvania State University Nuclear Engineering	21	1	33	4	24	29	27	7	12	13	3
Tennessee											
Tennessee Technological University Electrical, with Nuclear Option	2		9		1				8		
University of Tennessee Nuclear Engineering	18		17		19	2	16	1	5	11	
Texas											
Texas A&M University Nuclear Engineering	21		31		29	12	24	3	10	10	2
University of Texas at Austin Nuclear Engineering					4		5			1	1

**APPENDIX A-3
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
IN SUBFIELDS BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION AND SUBFIELD	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Utah											
University of Utah											
Nuclear Engineering					3		3		4		3
Chemical, with Nuclear Option			2		1		1		1		
Electrical, with Nuclear Option			1						1		
Mechanical, with Nuclear Option	2		11		2		3		7		
Virginia											
University of Virginia											
Nuclear Engineering	1		10		11	7	7	2	5	1	1
Washington											
University of Washington											
Nuclear Engineering						1	4	1		1	1
Wisconsin											
University of Wisconsin-Madison											
Nuclear Engineering	15		22		28	4	41	5	14	17	12
TOTALS	346	178	579	135	509	217	536	102	453	234	115
		524		714		726		638			

Source: U.S. Department of Energy

APPENDIX A-4
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES BY SUBFIELD, 1994

FT = FULL-TIME
PT = PART-TIME

SUBFIELD	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Nuclear Engineering	253	3	403	18	501	173	523	102	257	221	115
Chemical, with Nuclear Option	26	0	19	0	1	0	3	0	22	0	0
Engineering Science, with Nuclear Option	0	0	3	0	0	2	3	0	3	0	0
Electrical, with Nuclear Option	3	0	28	0	1	0	0	0	34	0	0
Mechanical, with Nuclear Option	34	0	78	0	5	41	5	0	40	12	0
Other	30	175	48	117	1	1	2	0	97	1	0
TOTALS	346	178	579	135	509	217	536	102	453	234	115
	524		714		726		638				

Source: U.S. Department of Energy

APPENDIX A-5
UNDERGRADUATE, MASTER'S, AND DOCTORAL ENROLLMENTS AND DEGREES IN
NUCLEAR ENGINEERING, PERCENT DISTRIBUTION, 1990 - 1994

SUBFIELD	ENROLLMENTS (Fall Term)			DEGREES GRANTED (Year Ending June 30)		
	UNDERGRADUATE	MASTER'S	DOCTORAL	B.S.	M.S.	PH.D.
	%	%	%	%	%	%
<u>Nuclear Engineering</u>						
1990	61.2	91.3	97.1	62.8	93.2	97.7
1991	54.1	89.7	98.7	65.1	97.3	99.2
1992	51.6	92.9	99.4	69.3	96.7	100.0
1993	56.5	92.5	99.1	64.7	96.1	100.0
1994	54.7	92.8	98.0	56.7	94.4	100.0
<u>Chemical, with Nuclear Option</u>						
1990	1.5	0.4	0.9	2.5	0.0	2.3
1991	2.1	0.0	1.0	3.6	0.0	0.0
1992	3.1	0.1	0.0	3.9	0.0	0.0
1993	3.0	0.1	0.3	3.9	0.0	0.0
1994	3.6	0.1	0.5	4.9	0.0	0.0
<u>Engineering Science, with Nuclear Option</u>						
1990	2.2	0.8	1.1	5.3	2.3	0.0
1991	0.6	0.0	0.1	2.4	0.0	0.0
1992	0.4	0.5	0.3	1.3	0.0	0.0
1993	0.6	0.3	0.4	0.5	0.0	0.0
1994	0.2	0.3	0.5	0.7	0.0	0.0
<u>Electrical, with Nuclear Option</u>						
1990	3.8	0.3	0.1	3.9	0.0	0.0
1991	2.7	0.1	0.0	5.5	0.5	0.0
1992	3.3	0.1	0.0	4.2	0.0	0.0
1993	3.0	0.1	0.0	3.9	0.0	0.0
1994	2.5	0.1	0.0	7.5	0.0	0.0

APPENDIX A-5
 UNDERGRADUATE, MASTER'S, AND DOCTORAL ENROLLMENTS AND DEGREES IN
 NUCLEAR ENGINEERING, PERCENT DISTRIBUTION, 1990 - 1994

SUBFIELD	ENROLLMENTS (Fall Term)			DEGREES GRANTED (Year Ending June 30)		
	UNDERGRADUATE	MASTER'S	DOCTORAL	B.S.	M.S.	PH.D.
	%	%	%	%	%	%
<u>Mechanical, with Nuclear Option</u>						
1990	9.2	4.8	0.4	14.9	2.3	0.0
1991	7.0	7.4	0.1	10.3	0.5	0.8
1992	9.3	6.3	0.3	8.3	3.3	0.0
1993	7.7	6.7	0.1	11.2	3.9	0.0
1994	9.0	6.3	0.8	8.8	5.1	0.0
<u>Other</u>						
1990	22.1	2.4	0.3	10.6	2.3	0.0
1991	30.9	2.8	0.0	13.2	1.8	0.0
1992	32.3	0.1	0.0	13.0	0.0	0.0
1993	29.2	0.3	0.0	15.8	0.0	0.0
1994	29.9	0.3	0.3	21.4	0.4	0.0

Source: U.S. Department of Energy

APPENDIX A-6
FOREIGN NATIONAL, FEMALE, AND MINORITY PARTICIPATION
IN NUCLEAR ENGINEERING PROGRAMS, 1988 - 1994

ETHNIC GROUP AND GENDER	ENROLLMENTS (Fall Term)								DEGREES GRANTED (Year Ending June 30)					
	JUNIORS		SENIORS		MASTER'S		DOCTORAL		B.S.		M.S.		PH.D.	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Foreign Nationals														
1988	13	2	14	2	207	28	332	51	21	4	87	38	56	49
1989	14	2	17	2	218	29	336	50	6	1	69	24	46	45
1990	15	2	20	3	197	27	360	51	10	2	62	28	65	49
1991	9	1	19	3	207	26	332	47	9	2	69	31	55	45
1992	16	2	15	2	187	23	326	50	15	4	65	31	63	47
1993	20	3	22	3	185	24	353	51	10	2	74	29	67	55
1994	12	2	41	6	142	20	256	40	13	3	55	24	60	52
Women														
1988	61	9	69	10	78	10	56	9	51	11	21	9	6	5
1989	60	8	73	10	85	11	53	8	45	10	30	10	7	7
1990	67	9	81	11	85	12	63	9	48	11	23	10	10	8
1991	55	7	68	10	99	13	62	9	58	14	22	10	8	7
1992	64	8	65	9	110	13	58	9	39	10	34	16	9	7
1993	64	9	52	7	99	13	71	10	41	10	33	13	13	11
1994	51	10	61	9	80	11	67	11	36	8	26	11	14	12
Blacks														
1988	26	4	12	2	8	1	2	0	5	1	1	0	2	2
1989	24	3	11	2	6	1	4	1	5	1	2	1	0	0
1990	13	2	20	3	5	1	2	0	8	2	2	1	0	0
1991	9	1	21	3	11	1	2	0	10	2	1	0	0	0
1992	20	3	24	3	11	1	5	1	4	1	0	0	0	0
1993	22	3	19	3	11	1	9	1	11	3	5	2	5	4
1994	10	2	15	2	13	2	6	1	12	3	2	1	0	0

APPENDIX A-6
FOREIGN NATIONAL, FEMALE, AND MINORITY PARTICIPATION
IN NUCLEAR ENGINEERING PROGRAMS, 1988 - 1994

ETHNIC GROUP AND GENDER	ENROLLMENTS (Fall Term)								DEGREES GRANTED (Year Ending June 30)					
	JUNIORS		SENIORS		MASTER'S		DOCTORAL		B.S.		M.S.		PH.D.	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
<u>Hispanic U.S. Citizens</u>														
1988	12	2	19	3	10	1	6	1	5	1	1	0	0	0
1989	10	1	14	2	12	2	8	1	11	2	3	1	1	1
1990	23	3	13	2	17	2	9	1	4	1	1	0	3	2
1991	11	1	20	3	12	2	8	1	8	2	5	2	0	0
1992	16	2	20	3	11	1	16	2	9	2	2	1	0	0
1993	18	3	16	2	19	2	14	2	7	2	6	2	5	4
1994	13	2	11	2	18	2	19	3	9	2	3	1	1	1
<u>Asian Americans/Pacific Islanders</u>														
1988	20	3	24	3	27	4	25	4	13	3	9	4	3	3
1989	6	1	21	3	16	2	24	4	7	2	9	3	1	1
1990	15	2	21	3	8	1	25	4	23	5	4	2	3	2
1991	25	3	24	3	14	2	20	3	13	3	5	2	9	7
1992	24	3	27	4	14	2	21	3	13	3	9	4	3	2
1993	25	4	25	4	14	2	21	3	7	2	6	2	6	5
1994	11	2	24	3	30	4	48	8	15	3	5	2	4	3
<u>American Indians/Alaskan Natives</u>														
1988	0	0	0	0	2	0	1	0	1	0	0	0	0	0
1989	1	0	0	0	1	0	1	0	3	1	1	0	0	0
1990	0	0	2	0	1	0	2	0	0	0	1	0	0	0
1991	1	0	2	0	0	0	2	0	0	0	0	0	0	0
1992	2	0	2	0	0	0	1	0	1	0	0	0	0	0
1993	3	0	2	0	1	0	1	0	1	0	1	0	0	0
1994	0	0	4	1	0	0	1	0	1	0	0	0	0	0

NOTE: All zeros in the table represent values of less than 0.5 percent.
Source: U.S. Department of Energy

APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Arizona											
Arizona State University											
White Males, Not Hispanic, U.S. Citizens			2		2				3		
Asian/Pacific Isl Females, U.S. Citizens			1								
University of Arizona											
Foreign National Females					1						
Foreign National Males					7	2	7	2		4	2
White Females, Not Hispanic, U.S. Citizens	1		1		1		1			1	
White Males, Not Hispanic, U.S. Citizens	5	2	14	1	7	3	2	3	7	2	3
Hispanic Males, U.S. Citizens	1		3				1		1		
Asian/Pacific Isl. Males, U.S. Citizens	1				1		1		2	1	
Arkansas											
University of Arkansas											
White Males, Not Hispanic, U.S. Citizens			2		3		1		2	1	
Asian/Pacific Isl Females, U.S. Citizens									1		
California											
University of California, Berkeley											
Foreign National Males	1		1		1		13		4	3	3
White Females, Not Hispanic, U.S. Citizens	2		2		2		4		2		
White Males, Not Hispanic, U.S. Citizens	7		10		12		24		8	4	4
Hispanic Females, U.S. Citizens							1				
Asian/Pacific Isl Females, U.S. Citizens					2						
Asian/Pacific Isl. Males, U.S. Citizens	3		3						4		
University of California, Los Angeles											
Foreign National Females					1		1				1
Foreign National Males					2		7				1
White Females, Not Hispanic, U.S. Citizens					1						

**APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
University of California, Los Angeles White Males, Not Hispanic, U.S. Citizens Unknown	7		32		3		6			1	
University of California, Santa Barbara Foreign National Males White Females, Not Hispanic, U.S. Citizens White Males, Not Hispanic, U.S. Citizens			5		1		4		1 4	1	
Florida											
University of Florida Foreign National Females Foreign National Males White Females, Not Hispanic, U.S. Citizens White Males, Not Hispanic, U.S. Citizens Black Females, Not Hispanic, U.S. Citizens Black Males, Not Hispanic, U.S. Citizens Hispanic Males, U.S. Citizens Asian/Pacific Isl. Males, U.S. Citizens Am. Ind., Alas. Nat. Females, U.S. Citizens					4 6 3 16 2 1 1 2		3 11 1 5 2 3 1 1		3 1 2 4 4 3 1		5 3
Georgia											
Georgia Institute of Technology Foreign National Females Foreign National Males White Females, Not Hispanic, U.S. Citizens White Males, Not Hispanic, U.S. Citizens Black Females, Not Hispanic, U.S. Citizens Black Males, Not Hispanic, U.S. Citizens Hispanic Males, U.S. Citizens Asian/Pacific Isl. Females, U.S. Citizens Asian/Pacific Isl. Males, U.S. Citizens					2 2 11 1		1 9 3 6 1 3 1				2 2 3
	3		2						1		
	5		12			3		2	10	3	
			1			1					
						1					
						1		3	1		
								1			2
	1		1		1				1	1	

**APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Idaho											
Idaho State University											
Foreign National Males	2				1		2				
White Females, Not Hispanic, U.S. Citizens						1			2		
White Males, Not Hispanic, U.S. Citizens	1		3		7	10		10	4	1	
Asian/Pacific Isl. Males, U.S. Citizens		1									
University of Idaho/INEL											
White Males, Not Hispanic, U.S. Citizens					1	2		1		1	
Illinois											
University of Illinois											
Foreign National Females					5		3				2
Foreign National Males					1		8			4	2
White Females, Not Hispanic, U.S. Citizens			2		2		2		2	1	
White Males, Not Hispanic, U.S. Citizens	7		19		23	1	10		16	10	1
Black Males, Not Hispanic, U.S. Citizens									1		
Hispanic Males, U.S. Citizens	1		1		1		1				
Indiana											
Purdue University											
Foreign National Females											1
Foreign National Females											
Foreign National Males					9	1	12	1		1	2
White Females, Not Hispanic, U.S. Citizens	4								1	1	
White Males, Not Hispanic, U.S. Citizens	13		11		7			3	6	2	
Hispanic Females, U.S. Citizens					1				1		
Hispanic Males, U.S. Citizens	1						1				
Asian/Pacific Isl. Males, U.S. Citizens			1		1		1				

**APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
University of Notre Dame White Males, Not Hispanic, U.S. Citizens	4		7						4		
Iowa											
Iowa State University											
Foreign National Females					1						
Foreign National Males							3			1	
White Females, Not Hispanic, U.S.Citizens					1						
White Males, Not Hispanic, U.S. Citizens					3	1	3		3	1	
Asian/Pacific Isl Females,U.S.Citizens							1				
Kansas											
Kansas State University											
Foreign National Females			5								
Foreign National Males	3		16							1	
White Females, Not Hispanic, U.S.Citizens							1		2	2	
White Males, Not Hispanic, U.S. Citizens					6	1	1	1	12	1	
Black Males, Not Hispanic, U.S. Citizens			1								
Hispanic Males, U.S. Citizens									1		
Asian/Pacific Isl Females,U.S.Citizens			1								
Asian/Pacific Isl. Males,U.S.Citizens			2		2		3				
Kentucky											
University of Kentucky											
White Males, Not Hispanic, U.S. Citizens			3						4		
Louisiana											
Louisiana State University											
Foreign National Males					2		3			1	
White Males, Not Hispanic, U.S. Citizens					2					1	

APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Maine											
University of Maine											
White Males, Not Hispanic, U.S. Citizens			5						3		
Maryland											
U.S. Naval Academy											
White Males, Not Hispanic, U.S. Citizens	17		11						15		
Hispanic Males, U.S. Citizens	1										
Asian/Pacific Isl. Males, U.S. Citizens			1								
Am. Ind., Alas. Nat. Males, U.S. Citizens			1								
Univ. of Maryland University College											
White Females, Not Hispanic, U.S. Citizens		4		3							
White Males, Not Hispanic, U.S. Citizens		160		108					59		
Black Females, Not Hispanic, U.S. Citizens		1									
Black Males, Not Hispanic, U.S. Citizens		4		1					2		
Hispanic Males, U.S. Citizens		3		1							
Asian/Pacific Isl. Males, U.S. Citizens		2		3							
Am. Ind., Alas. Nat. Males, U.S. Citizens				1					1		
University of Maryland											
Foreign National Females			1				1	2			
Foreign National Males					1	2	7			1	1
White Females, Not Hispanic, U.S. Citizens	3			1		1	1	3			
White Males, Not Hispanic, U.S. Citizens	8		9	3	5	7	1	7	2	1	1
Black Males, Not Hispanic, U.S. Citizens			1	1							
Asian/Pacific Isl. Females, U.S. Citizens									1		
Asian/Pacific Isl. Males, U.S. Citizens			1					1			

APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Massachusetts											
Massachusetts Institute of Technology											
Foreign National Females			1		3		5		1	2	
Foreign National Males	1				21		25		1	4	10
White Females, Not Hispanic, U.S. Citizens	3		5		3		2		2	2	
White Males, Not Hispanic, U.S. Citizens	3		2		31		19			11	9
Black Males, Not Hispanic, U.S. Citizens			1								
Hispanic Females, U.S. Citizens			1								
Hispanic Males, U.S. Citizens	1				1		1		1	2	
Asian/Pacific Isl Females, U.S. Citizens			2		1					1	
Asian/Pacific Isl. Males, U.S. Citizens	1						6				
University of Massachusetts Lowell											
Foreign National Males							2				
White Females, Not Hispanic, U.S. Citizens					1						
White Males, Not Hispanic, U.S. Citizens	4		3		3	7	2		3	3	
Black Females, Not Hispanic, U.S. Citizens	1										
Asian/Pacific Isl Females, U.S. Citizens						1				1	1
Asian/Pacific Isl. Males, U.S. Citizens					1	1					
Worcester Polytechnic Institute											
Foreign National Males	2		1								
White Females, Not Hispanic, U.S. Citizens	1								1		
White Males, Not Hispanic, U.S. Citizens	9		8						6		
Hispanic Males, U.S. Citizens									1		
Michigan											
University of Michigan											
Foreign National Females						1	1	1			1
Foreign National Males					4		16	1		2	3
White Females, Not Hispanic, U.S. Citizens	1				2		5		1	1	
White Males, Not Hispanic, U.S. Citizens	9		24	4	22		24		11	11	5

APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
University of Michigan											
Black Females, Not Hispanic,U.S.Citizens			1								
Black Males, Not Hispanic, U.S. Citizens					1		1		1		
Hispanic Females,U.S. Citizens											1
Hispanic Males, U.S. Citizens	1						1				
Asian/Pacific Isl Females,U.S.Citizens							1				
Asian/Pacific Isl. Males,U.S.Citizens					1						
Mississippi											
Mississippi State University											
Foreign National Males			1								
White Males, Not Hispanic, U.S. Citizens			5						6	2	
Black Males, Not Hispanic, U.S. Citizens				1					1		
Missouri											
University of Missouri, Rolla											
Foreign National Males							4				
White Females, Not Hispanic,U.S.Citizens	1		3								
White Males, Not Hispanic, U.S. Citizens	13		17		6		2		8	2	
Am. Ind.,Alas. Nat. Males,U.S.Citizens			1								
University of Missouri-Columbia											
Foreign National Males					4		9			3	
White Males, Not Hispanic, U.S. Citizens					3	5	1			2	
Asian/Pacific Isl. Males,U.S.Citizens							2			1	
New Jersey											
Stevens Institute of Technology											
White Females, Not Hispanic,U.S.Citizens	1								1		
White Males, Not Hispanic, U.S. Citizens			1		1	1				1	

APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
New Mexico											
University of New Mexico											
Foreign National Males					4		5		1	2	
White Females, Not Hispanic, U.S. Citizens			1		1	3		2		1	
White Males, Not Hispanic, U.S. Citizens	3		7	1	7	9	8	10	3	3	3
Black Females, Not Hispanic, U.S. Citizens								1			
Black Males, Not Hispanic, U.S. Citizens				1				1			
Hispanic Females, U.S. Citizens			1			1	1				
Hispanic Males, U.S. Citizens	2				1	1	1	3	1	1	
New York											
Clarkson University											
White Females, Not Hispanic, U.S. Citizens	2		1						1		
White Males, Not Hispanic, U.S. Citizens	6		5						8		
Columbia University											
White Males, Not Hispanic, U.S. Citizens							1	2			1
Hispanic Males, U.S. Citizens								1			
Asian/Pacific Isl. Males, U.S. Citizens								1			
Cornell University											
Foreign National Females											1
Foreign National Males					1						
White Females, Not Hispanic, U.S. Citizens					1						
White Males, Not Hispanic, U.S. Citizens					3	1	4			3	
Black Males, Not Hispanic, U.S. Citizens							1				
Manhattan College											
Foreign National Males			2								
White Females, Not Hispanic, U.S. Citizens					1	4				1	
White Males, Not Hispanic, U.S. Citizens	2		6		2	27			5	9	
Black Females, Not Hispanic, U.S. Citizens						2					

**APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Manhattan College											
Black Males, Not Hispanic, U.S. Citizens						2				1	
Hispanic Females,U.S. Citizens						1					
Hispanic Males, U.S. Citizens						2					
Asian/Pacific Isl. Males,U.S.Citizens									1		
Rensselaer Polytechnic Institute											
White Males, Not Hispanic, U.S. Citizens	14		16		10	2	5	2	16	3	2
Unknown	4		5		2	3	15	1	3	5	5
United States Military Academy											
Foreign National Males			1								
White Females, Not Hispanic,U.S.Citizens	4		1								
White Males, Not Hispanic, U.S. Citizens	22		33						23		
Black Females, Not Hispanic,U.S.Citizens			1								
Black Males, Not Hispanic, U.S. Citizens			2						1		
Asian/Pacific Isl Females,U.S.Citizens									1		
Asian/Pacific Isl. Males,U.S.Citizens			1								
North Carolina											
North Carolina State University											
Foreign National Females					2		2				
Foreign National Males	2		2		5		12			4	1
White Females, Not Hispanic,U.S.Citizens	3		3		2		2			2	
White Males, Not Hispanic, U.S. Citizens	10		26		12		13		11	8	
Black Males, Not Hispanic, U.S. Citizens					1						
Ohio											
Air Force Institute of Technology											
White Males, Not Hispanic, U.S. Citizens					7		1			3	2

**APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994**

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
The Ohio State University											
Foreign National Females										1	
Foreign National Males					4		2	1		2	2
White Females, Not Hispanic, U.S. Citizens					2						
White Males, Not Hispanic, U.S. Citizens	5		6		16	3	4		6	2	1
Black Males, Not Hispanic, U.S. Citizens					1						
Hispanic Males, U.S. Citizens					1						
University of Cincinnati											
Foreign National Females					2		1				
Foreign National Males					8		6	2		2	
White Females, Not Hispanic, U.S. Citizens						1					
White Males, Not Hispanic, U.S. Citizens	13		6		4	28	5	2	14	2	2
Youngstown State University											
Foreign National Females									1		
Foreign National Males			4								
White Females, Not Hispanic, U.S. Citizens			1						2		
White Males, Not Hispanic, U.S. Citizens	2		7						17		
Black Females, Not Hispanic, U.S. Citizens									1		
Asian/Pacific Isl. Males, U.S. Citizens									1		
Oregon											
Oregon State University											
Foreign National Females							1	1		1	
Foreign National Males							3			3	1
White Females, Not Hispanic, U.S. Citizens									1		
White Males, Not Hispanic, U.S. Citizens	5		9		5		2	1	7	5	
Asian/Pacific Isl. Males, U.S. Citizens			1						1		
Am. Ind., Alas. Nat. Females, U.S. Citizens			1								

APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Pennsylvania											
The Pennsylvania State University											
Foreign National Females							1	1			1
Foreign National Males					6		13	1		3	2
White Females, Not Hispanic, U.S.Citizens	2		5		1	3	1		3	1	
White Males, Not Hispanic, U.S. Citizens	18	1	28	3	16	24	11	4	9	9	
Black Males, Not Hispanic, U.S. Citizens					1						
Hispanic Males, U.S. Citizens	1					2					
Asian/Pacific Isl. Males, U.S.Citizens				1			1	1			
Tennessee											
Tennessee Technological University											
Foreign National Males			1								
White Females, Not Hispanic, U.S.Citizens			1								
White Males, Not Hispanic, U.S. Citizens	1		7		1				8		
Black Males, Not Hispanic, U.S. Citizens	1										
University of Tennessee											
Foreign National Females					1						
Foreign National Males			1		7	1	13			1	
White Females, Not Hispanic, U.S.Citizens	5		2								
White Males, Not Hispanic, U.S. Citizens	12		12		10	1	3	1	4	10	
Black Females, Not Hispanic, U.S.Citizens			1								
Black Males, Not Hispanic, U.S. Citizens	1		1								
Asian/Pacific Isl. Males, U.S.Citizens					1				1		
Texas											
Texas A&M University											
Foreign National Females			1		2	1	2				
Foreign National Males	1		2		9	1	12		1	2	2
White Females, Not Hispanic, U.S.Citizens	2		2							2	

APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Texas A&M University											
White Males, Not Hispanic, U.S. Citizens	17		23		15	9	8	3	5	6	
Black Females, Not Hispanic, U.S. Citizens	1										
Black Males, Not Hispanic, U.S. Citizens							1		1		
Hispanic Males, U.S. Citizens			3		2	1	1		2		
Asian/Pacific Isl. Males, U.S. Citizens					1				1		
University of Texas at Austin											
Foreign National Males					2		3				1
White Females, Not Hispanic, U.S. Citizens					1						
White Males, Not Hispanic, U.S. Citizens					1		2			1	
Utah											
University of Utah											
Foreign National Males							1		1		1
White Females, Not Hispanic, U.S. Citizens			2		2		1		2	1	
White Males, Not Hispanic, U.S. Citizens	2		12		4		5		6	3	2
Virginia											
University of Virginia											
Foreign National Females			1								
White Males, Not Hispanic, U.S. Citizens	1		7		1		1		5	1	1
Asian/Pacific Isl. Males, U.S. Citizens			2								
Unknown					10	7	6	2			
Washington											
University of Washington											
Foreign National Males							2				1
White Males, Not Hispanic, U.S. Citizens						1	2	1		1	

APPENDIX A-7
NUCLEAR ENGINEERING: FOREIGN NATIONAL, FEMALE, AND MINORITY
ENROLLMENTS AND DEGREES BY STATE AND INSTITUTION, 1994

FT = FULL-TIME
PT = PART-TIME

STATE - INSTITUTION ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Wisconsin											
University of Wisconsin-Madison											
Foreign National Females					1		1				1
Foreign National Males					1		4			6	10
White Females, Not Hispanic, U.S.Citizens	3		2			1	1		2	1	
White Males, Not Hispanic, U.S. Citizens	12		20		10	3	6	5	12	10	
Black Males, Not Hispanic, U.S. Citizens					1						
Hispanic Males, U.S. Citizens							1				
Asian/Pacific Isl Females, U.S.Citizens					1		1				
Asian/Pacific Isl. Males, U.S.Citizens					14		27				1
TOTALS	346	178	579	135	509	217	536	102	453	234	115
	524		714		726		638				

Source: U.S. Department of Energy

APPENDIX A-8
TOTAL NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
BY ETHNICITY AND GENDER, 1994

FT = FULL-TIME
PT = PART-TIME

ETHNICITY AND GENDER	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
Foreign National Females	0	0	9	0	23	2	23	5	2	4	8
Foreign National Males	12	0	32	0	108	9	215	13	11	51	52
White Females, Not Hispanic,U.S.Citizens	44	4	38	4	29	15	25	5	27	20	2
White Males, Not Hispanic, U.S. Citizens	256	163	420	120	294	163	192	62	373	144	43
Black Females, Not Hispanic,U.S.Citizens	2	1	3	0	1	2	0	2	3	0	0
Black Males, Not Hispanic, U.S. Citizens	3	4	8	4	5	5	3	1	9	2	0
Hispanic Females,U.S. Citizens	0	0	2	0	1	2	2	0	1	0	1
Hispanic Males, U.S. Citizens	10	3	8	1	8	7	11	6	8	3	0
Asian/Pacific Isl Females,U.S.Citizens	0	0	4	0	4	1	3	1	3	2	3
Asian/Pacific Isl. Males,U.S.Citizens	8	3	15	5	24	1	41	3	12	3	1
Am. Ind.,Alas. Nat. Females,U.S.Citizens	0	0	1	0	0	0	0	1	0	0	0
Am. Ind.,Alas. Nat. Males,U.S.Citizens	0	0	2	1	0	0	0	0	1	0	0
Unknown	11	0	37	0	12	10	21	3	3	5	5
TOTALS	346	178	579	135	509	217	536	102	453	234	115
	524		714		726		638				

Source: U.S. Department of Energy

APPENDIX A-9
EMPLOYMENT OR POSTGRADUATION PLANS OF NUCLEAR ENGINEERING
GRADUATES BY DEGREE LEVEL, 1994

EMPLOYMENT OR POSTGRADUATION PLANS	BACHELOR'S			MASTER'S			DOCTORAL		
	NUMBER	PERCENT	NUMBER OF FOREIGN NATIONALS	NUMBER	PERCENT	NUMBER OF FOREIGN NATIONALS	NUMBER	PERCENT	NUMBER OF FOREIGN NATIONALS
Continued study	140	31	8	85	36	38	22	19	15
Academic employment, U.S.	2	0	0	5	2	2	11	10	3
Federal government employment	3	1	0	15	6	0	4	3	1
DOE contractor facilities (M&Os)	13	3	0	20	9	1	12	10	1
State and local government employment	1	0	0	0	0	0	5	4	4
Nuclear utility employment, U.S.	87	19	0	24	10	0	1	1	1
Other industrial employment, U.S.	42	9	0	43	18	4	8	7	5
Employment with foreign employer	0	0	0	8	3	8	19	17	18
U.S. military service	53	12	0	13	6	0	3	3	0
Other	7	2	1	4	2	1	8	7	3
Still seeking employment	27	6	1	3	1	1	6	5	3
Unknown	78	17	3	14	6	0	16	14	6
TOTALS	453	100	13	234	100	55	115	100	60

NOTE: Percentages are rounded to nearest whole number.
Source: U.S. Department of Energy

**APPENDIX A-10
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
BY SURVEY REGION AND STATE, 1994**

FT = FULL-TIME
PT = PART-TIME

REGION - STATE	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL		B.S.	M.S.	Ph.D.
	FT	PT	FT	PT	FT	PT	FT	PT			
REGION I - NEW ENGLAND											
Maine	0	0	5	0	0	0	0	0	3	0	0
Massachusetts	26	0	24	0	65	9	62	0	16	26	20
TOTAL	<u>26</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>65</u>	<u>9</u>	<u>62</u>	<u>0</u>	<u>19</u>	<u>26</u>	<u>20</u>
REGION II - MIDDLE ATLANTIC											
Maryland	29	174	25	122	6	10	10	13	80	2	2
New Jersey	1	0	1	0	1	1	0	0	1	1	0
New York	54	0	74	0	20	44	26	7	59	22	9
Pennsylvania	21	1	33	4	24	29	27	7	12	13	3
TOTAL	<u>105</u>	<u>175</u>	<u>133</u>	<u>126</u>	<u>51</u>	<u>84</u>	<u>63</u>	<u>27</u>	<u>152</u>	<u>38</u>	<u>14</u>
REGION III - EAST NORTH-CENTRAL											
Illinois	8	0	22	0	32	1	24	0	19	15	5
Indiana	22	0	19	0	18	1	14	4	12	4	3
Michigan	11	0	25	4	30	1	49	2	12	15	10
Ohio	20	0	24	0	45	32	19	5	42	12	7
Wisconsin	15	0	22	0	28	4	41	5	14	17	12
TOTAL	<u>76</u>	<u>0</u>	<u>112</u>	<u>4</u>	<u>153</u>	<u>39</u>	<u>147</u>	<u>16</u>	<u>99</u>	<u>63</u>	<u>37</u>
REGION IV - WEST NORTH-CENTRAL											
Iowa	0	0	0	0	5	1	7	0	3	2	0
Kansas	3	0	25	0	8	1	5	1	15	4	0
Missouri	14	0	21	0	13	5	18	0	8	8	0
TOTAL	<u>17</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>26</u>	<u>7</u>	<u>30</u>	<u>1</u>	<u>26</u>	<u>14</u>	<u>0</u>
REGION V - SOUTH ATLANTIC											
Florida	13	0	24	0	32	14	20	9	27	7	8

**APPENDIX A-10
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
BY SURVEY REGION AND STATE, 1994**

FT = FULL-TIME
PT = PART-TIME

REGION - STATE	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
REGION V - SOUTH ATLANTIC											
Georgia	9	0	15	1	17	5	22	7	12	4	9
North Carolina	15	0	31	0	22	0	29	0	11	14	1
Virginia	1	0	10	0	11	7	7	2	5	1	1
TOTAL	38	0	80	1	82	26	78	18	55	26	19
REGION VI - EAST SOUTH-CENTRAL											
Kentucky	0	0	3	0	0	0	0	0	4	0	0
Mississippi	0	0	6	1	0	0	0	0	7	2	0
Tennessee	20	0	26	0	20	2	16	1	13	11	0
TOTAL	20	0	35	1	20	2	16	1	24	13	0
REGION VII - WEST SOUTH-CENTRAL											
Arkansas	0	0	2	0	0	3	1	0	3	1	0
Louisiana	0	0	0	0	4	0	3	0	0	2	0
Texas	21	0	31	0	33	12	29	3	10	11	3
TOTAL	21	0	33	0	37	15	33	3	13	14	3
REGION VIII - MOUNTAIN											
Arizona	8	2	21	1	17	7	12	5	13	8	5
Idaho	3	1	3	0	9	13	2	11	6	2	0
New Mexico	5	0	9	2	13	14	15	17	5	7	3
Utah	2	0	14	0	6	0	7	0	9	4	3
TOTAL	18	3	47	3	45	34	36	33	33	21	11
REGION IX - PACIFIC											
California	20	0	53	0	25	0	61	0	23	9	9
Oregon	5	0	11	0	5	0	6	2	9	9	1

APPENDIX A-10
NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES
BY SURVEY REGION AND STATE, 1994

FT = FULL-TIME
PT = PART-TIME

REGION - STATE	ENROLLMENTS - FALL 1994								DEGREES GRANTED		
	UNDERGRADUATE				GRADUATE				JULY 1993 - JUNE 1994		
	JUNIORS		SENIORS		MASTER'S		DOCTORAL				
	FT	PT	FT	PT	FT	PT	FT	PT	B.S.	M.S.	Ph.D.
REGION IX - PACIFIC											
Washington	0	0	0	0	0	1	4	1	0	1	1
TOTAL	25	0	64	0	30	1	71	3	32	19	11

Source: U.S. Department of Energy

APPENDIX A-11
NUCLEAR ENGINEERING AS A PERCENTAGE OF ALL ENGINEERING DEGREES
BY DEGREE LEVEL, 1974-1994

YEAR ENDING JUNE 30	BACHELOR'S			MASTER'S			DOCTORAL		
	ALL ENGINEERING	NUCLEAR ENGINEERING	PERCENT NUCLEAR ALL ENG.	ALL ENGINEERING	NUCLEAR ENGINEERING	PERCENT NUCLEAR ALL ENG.	ALL ENGINEERING	NUCLEAR ENGINEERING	PERCENT NUCLEAR ALL ENG.
1974	41407	661	1.60	15885	465	2.93	3362	128	3.81
1975	38210	599	1.57	15549	468	3.01	3138	103	3.28
1976	37970	734	1.93	16506	468	2.84	2977	146	4.90
1977	40094	805	2.01	16517	554	3.35	2814	126	4.48
1978	46091	863	1.87	16182	486	3.00	2573	112	4.35
1979	52598	828	1.57	16032	463	2.89	2815	117	4.16
1980	58742	732	1.25	17243	366	2.12	2751	116	4.22
1981	62935	692	1.10	17914	315	1.76	2841	132	4.65
1982	66990	681	1.02	18289	342	1.87	2887	127	4.40
1983	72240	654	0.91	19600	325	1.66	3023	124	4.10
1984	76931	660	0.86	21226	316	1.49	3234	132	4.08
1985	77964	612	0.78	22484	306	1.36	3384	113	3.34
1986	78178	572	0.73	23025	283	1.23	3686	120	3.26
1987	75735	508	0.67	24290	295	1.21	4175	97	2.32
1988	71386	485	0.68	25616	232	0.91	4571	114	2.49
1989	68824	454	0.66	26412	287	1.09	5017	102	2.03
1990	65967	436	0.66	27034	220	0.81	5424	133	2.45
1991	63986	412	0.64	27754	222	0.80	5680	122	2.15
1992	63653	384	0.60	28540	212	0.74	5958	135	2.27
1993	65001	411	0.63	31104	256	0.82	6198	121	1.95
1994	64946	453	0.70	31943	234	0.73	6458	115	1.78

Source: Data for all engineering supplied by the Engineering Workforce Commission, (Formerly, the Engineering Manpower Commission) Washington, D.C. Nuclear engineering degrees are from the Survey of "Nuclear Engineering Enrollments and Degrees, 1994".

APPENDIX A-12
INSTITUTIONS WITH UNDERGRADUATE AND GRADUATE PROGRAMS
OR OPTIONS IN NUCLEAR ENGINEERING, FALL 1994

UG - UNDERGRADUATE
G - GRADUATE

Nuclear Engineering

AZ - University of Arizona - UG G	CA - University of California, Berkeley - UG G
CA - University of California, Los Angeles - G	CA - University of California, Santa Barbara - UG G
FL - University of Florida - UG G	GA - Georgia Institute of Technology - UG G
ID - Idaho State University - UG G	ID - University of Idaho/INEL - G
IL - University of Illinois - UG G	IN - Purdue University - UG G
IA - Iowa State University - UG G	KS - Kansas State University - UG G
LA - Louisiana State University - G	MD - University of Maryland - UG G
MA - Massachusetts Institute of Technology - UG G	MA - University of Massachusetts Lowell - UG G
MI - University of Michigan - UG G	MS - Mississippi State University - UG G
MO - University of Missouri, Rolla - UG G	MO - University of Missouri-Columbia - G
NM - University of New Mexico - UG G	NY - Columbia University - G
NY - Cornell University - G	NY - Rensselaer Polytechnic Institute - UG G
NY - United States Military Academy - UG	NC - North Carolina State University - UG G
OH - Air Force Institute of Technology - G	OH - The Ohio State University - G
OH - University of Cincinnati - UG G	OR - Oregon State University - UG G
PA - The Pennsylvania State University - UG G	TN - University of Tennessee - UG G
TX - Texas A&M University - UG G	TX - University of Texas at Austin - G
UT - University of Utah - G	VA - University of Virginia - UG G
WA - University of Washington - G	WI - University of Wisconsin-Madison - UG G

Chemical, with Nuclear Option

CA - University of California, Santa Barbara - G	IN - University of Notre Dame - UG
MA - Worcester Polytechnic Institute - UG	NY - Clarkson University - UG
NY - United States Military Academy - UG	OH - Youngstown State University - UG
UT - University of Utah - UG G	

Engineering Science, with Nuclear Option

AZ - Arizona State University - UG G	LA - Louisiana State University - G
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APPENDIX A-12
INSTITUTIONS WITH UNDERGRADUATE AND GRADUATE PROGRAMS
OR OPTIONS IN NUCLEAR ENGINEERING, FALL 1994

UG - UNDERGRADUATE
G - GRADUATE

Electrical, with Nuclear Option

CA - University of California, Berkeley - UG
OH - Youngstown State University - UG
UT - University of Utah - UG

IN - University of Notre Dame - UG
TN - Tennessee Technological University - UG G

Mechanical, with Nuclear Option

AR - University of Arkansas - UG G
CA - University of California, Los Angeles - UG
IN - University of Notre Dame - UG
MA - Worcester Polytechnic Institute - UG
NY - Manhattan College - UG G
UT - University of Utah - UG G

CA - University of California, Berkeley - UG
CA - University of California, Santa Barbara - G
KY - University of Kentucky - UG
NY - Clarkson University - UG
OH - The Ohio State University - UG

Civil, with Nuclear Option

NY - Clarkson University - UG

Engineering or Applied Physics, with Nuclear Opt.

NJ - Stevens Institute of Technology - UG G

General Engineering, with Nuclear Option

ID - Idaho State University - UG

Marine, with Nuclear Option

MD - U.S. Naval Academy - UG

Materials, with Nuclear Option

CA - University of California, Santa Barbara - G

APPENDIX A-12
INSTITUTIONS WITH UNDERGRADUATE AND GRADUATE PROGRAMS
OR OPTIONS IN NUCLEAR ENGINEERING, FALL 1994

UG - UNDERGRADUATE
G - GRADUATE

Math/Operations Research, with Nuclear Option

NY - United States Military Academy - UG

Nuclear Science

MD - Univ. of Maryland University College - UG

Physics, with Nuclear Option

ME - University of Maine - UG

NY - United States Military Academy - UG

NOTE: The nuclear engineering major and various nuclear engineering option programs listed above reflect only those programs in which students are currently enrolled. The institutions may offer other nuclear engineering option programs in which no one is currently enrolled.

Source: U.S. Department of Energy.

APPENDIX B. ADDRESSES

APPENDIX B-1
ADDRESSES OF INSTITUTIONS IN SURVEY UNIVERSE, 1994

University of Arkansas
Dept. of Mechanical Engineering
Fayetteville, AR 72701

Arizona State University
Nuclear Engineering Science
College of Engineering & Applied Science
Tempe, AZ 85287-5706

University of Arizona
Nuclear & Energy Engineering
Attn: Dorothy Graves
Tucson, AZ 85721

University of California, Berkeley
Dept. of Nuclear Engineering
Berkeley, CA 94720

University of California, Los Angeles
Dept. of Mechanical, Aerospace and
Nuclear Engineering
Los Angeles, CA 90024-1597

University of California, Santa Barbara
Dept. of Chemical & Nuclear Engineering
Santa Barbara, CA 93106

University of Florida
Nuclear Engineering Sciences
Gainesville, FL 32611

Georgia Institute of Technology
Program in Nuclear Engineering
Mechanical Engineering Department
Atlanta, GA 30332-0405

Iowa State University
Nuclear Engineering Program
Ames, IA 50011-2241

Idaho State University
College of Engineering
Pocatello, ID 83209-0009

University of Idaho/INEL
Joint Nuclear Engineering Program
Idaho Falls, ID 83402

University of Illinois
Dept. of Nuclear Engineering
Urbana, IL 61801

Purdue University
School of Nuclear Engineering
West Lafayette, IN 47907

University of Notre Dame
Department of Aerospace and
Mechanical Engineering
Notre Dame, IN 46556

Kansas State University
Dept. of Nuclear Engineering
Manhattan, KS 66506-2503

University of Kentucky
Dept. of Mechanical Engineering
Lexington, KY 40506-0046

Louisiana State University
Nuclear Science Center
Baton Rouge, LA 70803-5820

Massachusetts Institute of Technology
Department of Nuclear Engineering
Cambridge, MA 02139

University of Massachusetts Lowell
Nuclear Engineering Program
Lowell, MA 01854

Worcester Polytechnic Institute
Nuclear Engineering Program
Worcester, MA 01609

U.S. Naval Academy
Naval Systems Engineering (NAOME)
Annapolis, MD 21402-5000

APPENDIX B-1
ADDRESSES OF INSTITUTIONS IN SURVEY UNIVERSE, 1994

Univ. of Maryland University College
Office of Special Programs
College Park, MD 20742

University of Maryland
Nuclear Engineering Program
Dept. of Materials & Nuclear Engineering
College Park, MD 20742

University of Maine
Department of Physics
Orono, ME 04469

University of Michigan
Department of Nuclear Engineering
Ann Arbor, MI 48109-2100

University of Missouri, Rolla
Department of Nuclear Engineering
Rolla, MO 65401

University of Missouri-Columbia
Department of Nuclear Engineering
Columbia, MO 65211

Mississippi State University
Dept. of Mechanical Engineering
Mississippi State, MS 39762

North Carolina State University
Department of Nuclear Engineering
Raleigh, NC 27695-7909

Stevens Institute of Technology
Dept. of Engineering Physics
Hoboken, NJ 07030

University of New Mexico
Dept. of Chemical & Nuclear Engineering
Albuquerque, NM 87131

Clarkson University
Dept. of Chemical Engineering
Potsdam, NY 13699-5705

Columbia University
Dept. of Applied Physics
New York, NY 10027

Cornell University
Nuclear Science & Engineering Program
Ithaca, NY 14853

Manhattan College
Department of Mechanical Engineering
Riverdale, NY 10471

Rensselaer Polytechnic Institute
Department of Nuclear Engineering
Troy, NY 12180-3590

United States Military Academy
Department of Physics
West Point, NY 10996-1790

Air Force Institute of Technology
Nuclear Engineering Program
Department of Engineering Physics
Dayton, OH 45433-7765

The Ohio State University
Nuclear Engineering Program
Columbus, OH 43210-1107

University of Cincinnati
Dept. of Mechanical, Industrial
and Nuclear Engineering
Cincinnati, OH 45221-0072

Youngstown State University
Dept. of Chemical and Nuclear Engineering
School of Engineering
Youngstown, OH 44555

Oregon State University
Department of Nuclear Engineering
Corvallis, OR 97331-5902

**APPENDIX B-1
ADDRESSES OF INSTITUTIONS IN SURVEY UNIVERSE, 1994**

The Pennsylvania State University
Department of Nuclear Engineering
University Park, PA 16802

Tennessee Technological University
Department of Electrical Engineering
Cookeville, TN 38505

University of Tennessee
Department of Nuclear Engineering
Knoxville, TN 37996

Texas A&M University
Department of Nuclear Engineering
College Station, TX 77843-3133

University of Texas at Austin
Nuclear Engineering Program
Austin, TX 78712

University of Utah
Nuclear Engineering Program
College of Engineering
Salt Lake City, UT 84112-1107

University of Virginia
Dept. of Mechanical, Aerospace,
and Nuclear Engineering
Charlottesville, VA 22903-2442

University of Washington
Nuclear Engineering Group, BF-20
Seattle, WA 98195

University of Wisconsin-Madison
Department of Nuclear Engineering
Madison, WI 53706

NOTES

The data for the Idaho State University and the University of Idaho include students in the Joint Nuclear Engineering Program which is a cooperative venture with the Idaho National Engineering Laboratory that began in 1989.

The Nuclear Engineering programs at Arizona State University, The University of California, Santa Barbara, Mississippi State University, and the University of Washington are suspended; students are being allowed to complete their degrees.

The Undergraduate Nuclear Engineering program at Iowa State University has been suspended; last degrees granted 1994. The University of Virginia's undergraduate program has been suspended; students are being allowed to complete their degrees.

APPENDIX C. SURVEY MATERIALS

Department of Energy

Washington, DC 20585

October 14, 1994

Dear Professor:

Enclosed is the annual *Nuclear Engineering Enrollments and Degrees Survey* sponsored by the Department of Energy. The survey is designed to include those programs offering a major in nuclear engineering or course work equivalent to a major in other engineering disciplines that prepare the graduates to perform as nuclear engineers. This survey provides data on nuclear engineering enrollments and degrees for use in labor market analyses, information on education programs for students, and information on new graduates to employers, government agencies, academia and professional societies. We appreciate your voluntary effort in helping us provide this information.

Currently, the labor market for nuclear engineers is undergoing major shifts. Nuclear electric utilities employment has stabilized, nuclear defense and security employment has decreased, environmental restoration and waste management employment has expanded, and demand in the general economy continues to be relatively weak for science and engineering fields. Overall, job openings for new graduates in nuclear engineering result largely from job openings for replacement needs from attrition. At the same time, enrollments in nuclear engineering continue to decline. If the enrollment decline persists over the next several years, the number of new graduates may not be sufficient even to meet the job openings for replacement needs. Thus, it continues to be important to collect nuclear engineering education data in order to assess likely future labor market trends.

Instructions for completing the form are on the back of this letter, and a self-addressed stamped envelope is provided for your convenience. We would appreciate your response within **four weeks**. If you have questions, please contact Duveen L. Shirley, Science/Engineering Education Division, Oak Ridge Institute for Science and Education (615) 576-3409, Fax (615) 241-2727, Internet SHIRLEYD@ORAU.GOV.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael L. Wolfe", is written over the word "Sincerely,".

Michael L. Wolfe
Senior Program Manager
Office of University and Science
Education Programs

MLW:ds
Enclosures

Note: Information provided through this survey is not considered to be confidential and may be disclosed to the public.

INSTRUCTIONS AND DEFINITIONS FOR COMPLETING DOE FORM ER-616

WHO SHOULD COMPLETE AND SUBMIT FORM: All departments with programs offering a major in nuclear engineering or in other engineering disciplines (e.g., mechanical or chemical) that provide nuclear engineering course work equivalent to a major in nuclear engineering (nuclear engineering option) that would prepare graduates **TO FUNCTION AS NUCLEAR ENGINEERS**. Exception: any health physics or radiation protection option within an engineering curriculum should be reported on DOE Form ER-617, which is available from the address or telephone number given below. Each major program should be reported on the appropriate line or on separate lines in the write-in space. Very small specialties should be combined.

WHEN AND WHERE TO SUBMIT FORM: The form should be submitted within four weeks of receipt or earlier, depending upon your institution's enrollment schedule. Send completed form to:

Duveen L. Shirley
Oak Ridge Institute for Science and Education
P.O. Box 117
Oak Ridge, Tennessee 37831-0117
(615) 576-3409, Fax (615) 241-2727,
Internet SHIRLEYD@ORAU.GOV

A Self-addressed, postage-paid envelope is enclosed for your convenience.

SPECIAL INSTRUCTIONS: Report only students enrolled in a degree program. Count on-campus semester co-op students (see definition below) as full-time students. If exact figures are not available, give your best estimate and indicate by an "E" after each number that is estimated. (Report numbers in spaces where appropriate leaving all other spaces blank.)

DEFINITIONS

Junior: A student who is more than one and less than two academic years short of a Bachelor's degree or equivalent.

Senior: A student who is one year or less short of a Bachelor's degree or equivalent.

Master's Candidate: A student enrolled in a program leading to any degree above the B.S. or B.A. level and below the Ph.D. level.

CO-OP Student: A student who alternates sessions of schooling with sessions of employment in a position related to the academic specialty.

Foreign National: Any student who is a citizen of another country and who has not applied for U.S. citizenship.

White not of Hispanic origin: A person having origin in any of the original peoples of Europe, North Africa, or the Middle East.

Black not of Hispanic origin: A person having origin in any of the black racial groups of Africa.

Hispanic: A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin regardless of race.

Asian or Pacific Islander: A person having origin in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands.

American Indian or Alaskan Native: A person having origin in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

Important: Before completing, please read instructions and definitions on back of letter.

U.S. Department of Energy

**This is a voluntary survey
authorized by Public Law 95-91.**

NUCLEAR ENGINEERING ENROLLMENTS AND DEGREES SURVEY: 1994

**Affix label if correct; otherwise,
please type correct address here.**

Contact Person _____ Phone _____

Department(s) _____ Fax _____

Signature _____ Internet _____

While you are not required to respond, your cooperation is needed to make the results comprehensive, accurate, and timely. Information will NOT be held confidential, and is supplied to government and industry recruiters.

(Please report only those students in nuclear engineering programs or other engineering disciplines with nuclear courses sufficient to prepare them to perform as nuclear engineers.)

SECTION A — Curriculum or Option*	CODE
Nuclear engineering program	10
Nuclear engineering option within chemical engineering program	20
Nuclear engineering option within engineering science program	30
Nuclear engineering option within electrical engineering program	40
Nuclear engineering option within mechanical engineering program	50
Other: (Specify, e.g., Industrial, Civil)	
TOTALS	

SECTION B — Racial, Ethnic and Gender Breakdown

Foreign nationals (Temporary Visas)	Male	1 M
	Female	1 F
White U.S. citizens or permanent residents, not of Hispanic origin	Male	2 M
	Female	2 F
Black U.S. citizens or permanent residents, not of Hispanic origin	Male	3 M
	Female	3 F
Hispanic U.S. citizens or permanent residents	Male	4 M
	Female	4 F
Asian or Pacific Islander U.S. citizens or permanent residents	Male	5 M
	Female	5 F
American Indian or Alaskan native U.S. citizens or permanent residents	Male	6 M
	Female	6 F

TOTALS**ENROLLMENTS — FALL 1994**[illegible]

Totals for Section A and Section B should agree -

**Health physics/radiation protection engineering students should be entered on form DOE F ER-617. (See survey instructions.)*

(Survey continued on the back)

SECTION C – Employment or Postgraduation Plans For degrees granted July 1, 1993 through June 30, 1994		BACHELOR'S		MASTER'S		DOCTORAL	
		Total Graduates	Number of Foreign Nationals in Totals	Total Graduates	Number of Foreign Nationals in Totals	Total Graduates	Number of Foreign Nationals in Totals
	CODE						
Continued study for higher degree or postdoctoral study. (Include students employed part-time.)	1						
Academic employment, U.S.	2						
Federal government employment, U.S.	3						
DOE contractor R&D and production facilities (M&Os)	4						
State and local government employment, U.S.	5						
Nuclear utility employment, U.S.	6						
Other industrial employment, U.S.	7						
Employment with foreign employer	8						
U.S. military service	9						
Other (specify)	10						
Seeking employment	11						
Unknown	12						
TOTALS ("Total Graduates" column at each degree level should agree with "Degrees Granted" totals on the front side.)							

Remarks: