Nuclear Engineering Academic Programs Survey, 2002 Data

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SURVEY UNIVERSE

The survey includes degrees granted between July 1, 2001 and June 30, 2002. Enrollment information refers to the fall term 2002. Thirty-five academic programs were in the survey universe and all responded (100% response rate). One of the 35 programs reported that it was discontinued after the 2001-2002 academic year. Also, two programs were discontinued after the previous academic year (2000-2001) and were not included in 2002 survey.

DEGREE DATA

Bachelor's Degrees. The number of B.S. degrees granted in 2002 by nuclear engineering programs participating in the Department of Energy, Office of Nuclear Energy, Science and Technology Fellowship and Scholarship program (NEST F&S) was the highest number reported over the last five years. This was a substantial increase (44%) over the number of B.S. degrees granted in 2001 (which was the lowest number in over a decade). (See Table 1, part A.) The number of B.S. degrees granted in 2002 by all nuclear engineering programs also increased over 2001. (See Table 1, part B.) Nuclear engineering majors accounted for 83% of all B.S. degrees with the remaining 17% in nuclear engineering option programs.

Graduate Degrees. For nuclear engineering programs participating in the NEST F&S, the number of both masters' and doctorate degrees granted in 2002 declined from 2001. (See Table 1, part A.) Almost all M.S. and Ph.D. degrees are granted by programs in the NEST F&S, thus the number of graduate degrees granted by all nuclear engineering programs followed the same trend as for the NEST F&S programs. (See Table 1, part B.) Nuclear engineering majors accounted for all of the graduate degrees except two doctorate degrees.

Table 1. Nuclear Engineering Degrees, 1998-2002

A. DOE, NEST Fellowship and Scholarship Nuclear Engineering Programs:

Year	Degrees		
	B.S.	M.S.	Ph.D.
2002	153	117	65
2001	106	132	80
2000	143	126	68
1999	132	126	74
1998	143	144	89

B. Total All Nuclear Engineering Programs:

Year	Degrees		
	B.S.	M.S.	Ph.D.
2002	195	130	67
2001	120	145	80
2000	159	133	74
1999	199	142	86
1998	222	160	98

Enrollments and Short Term Outlook for Degree Trends

The enrollment of undergraduate nuclear engineering majors has increased substantially over the last two years indicating a continuing increase in the number of bachelor's degrees. The enrollment of graduate students increased in the fall 2002 after remaining stable from 2000 to 2001, and decreasing from 1998 to 2000. This enrollment trend indicates an increasing number of graduate degrees over the next few years.

Employment or Postgraduate Study Data

Among the B.S. degree graduates, the most common post graduation activities were: 31% continued study, 17% U.S. military active duty, and 10% nuclear electric utilities employment. Less than 3% were still seeking employment at the time of the survey response. (See Table 2.)

Table 2. Employment or Postgraduate Study Information

	B.S.	M.S.	Ph.D.
Continued study	61	39	11
Academic institution, U.S.	8	2	5
Federal government	12	11	6
DOE contractor	4	13	20
State and local government	3	2	0
Nuclear utilities, U.S.	20	14	7
Other industry, U.S.	11	10	9
Foreign employment	0	10	0
U.S. military	34	13	1
Other employment	3	5	0
Seeking employment	5	1	2
Unknown and not reported	34	10	6
Totals	195	130	67

Among the M.S. degree graduates, the most common post graduation activities were: 30% continued study, 11% nuclear electric utilities employment, and 10% for both DOE contractor employment and U.S. military active duty. Less than 1% was still seeking employment at the time of the survey response.

Among the Ph.D. degree graduates, the most common post graduation activities were: 30% DOE contractor employment, 16% continued study, and 13% other industry employment. Three percent were still seeking employment at the time of the survey response.

Foreign National Data

Less than 4% of the B.S. degree recipients were non-U.S. citizens. Approximately 40% of both the M.S. degree recipients and Ph.D. degree recipients were non-U.S. citizens.

Table 3. Nuclear Engineering Degrees, 2002, by Academic Institution

NEST F&S Status as of May 2003		Name of Institution	State	Degrees, July 1 2001 - June 30, 2002		
Scholarship	Fellowship			B.S.	M.S.	Ph.D.
		University of Arizona	AZ	1	0	0
Yes	Yes	University of California, Berkeley	CA	6	2	1
Yes	Yes	University of Florida	FL	6	14	0
Yes	Yes	Georgia Institute of Technology	GA	5	2	4
Yes	Yes	Idaho State University	ID	0	1	1
		University of Idaho	ID	0	0	0
Yes	Yes	University of Illinois, Urbana	IL	6	4	4
Yes	Yes	Purdue University	IN	16	6	3
		University of Notre Dame	IN	4	0	0
Yes	Yes	Kansas State University	KS	3	2	0
		Louisiana State University	LA	0	0	0
Yes	Yes	Massachusetts Institute of Technology	MA	5	14	10
Yes		University of Massachusetts, Lowell	MA	2	3	0
		University of Maryland, University College*	MD	16	0	0
Yes	Yes	University of Maryland, College Park	MD	2	2	3
		University of Maine	ME	2	0	0
Yes	Yes	University of Michigan, Ann Arbor	MI	11	11	12
Yes	Yes	University of Missouri, Columbia	MO	0	2	2
Yes		University of Missouri, Rolla	MO	6	1	1
Yes	Yes	North Carolina State University	NC	9	8	2
Yes	Yes	University of New Mexico	NM	3	4	0
		Cornell University	NY	0	2	0
Yes	Yes	Rensselaer Polytechnic Institute	NY	28	4	2
		United States Military Academy	NY	13	0	0
		Air Force Institute of Technology	OH	0	7	1
Yes	Yes	Ohio State University	OH	0	4	2
Yes	Yes	University of Cincinnati	OH	0	5	3
Yes	Yes	Oregon State University	OR	4	4	0
Yes	Yes	Pennsylvania State University	PA	12	5	4
		Tennessee Technological University	TN	0	0	0
Yes	Yes	University of Tennessee, Knoxville	TN	9	7	0
Yes	Yes	Texas A&M University, College Station	TX	12	6	1
	Yes	University of Texas, Austin	TX	6	6	4
Yes	Yes	University of Utah	UT	3	0	4
Yes	Yes	University of Wisconsin, Madison	WI	5	4	3
Totals				195	130	67

*Program discontinued after 2002.

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