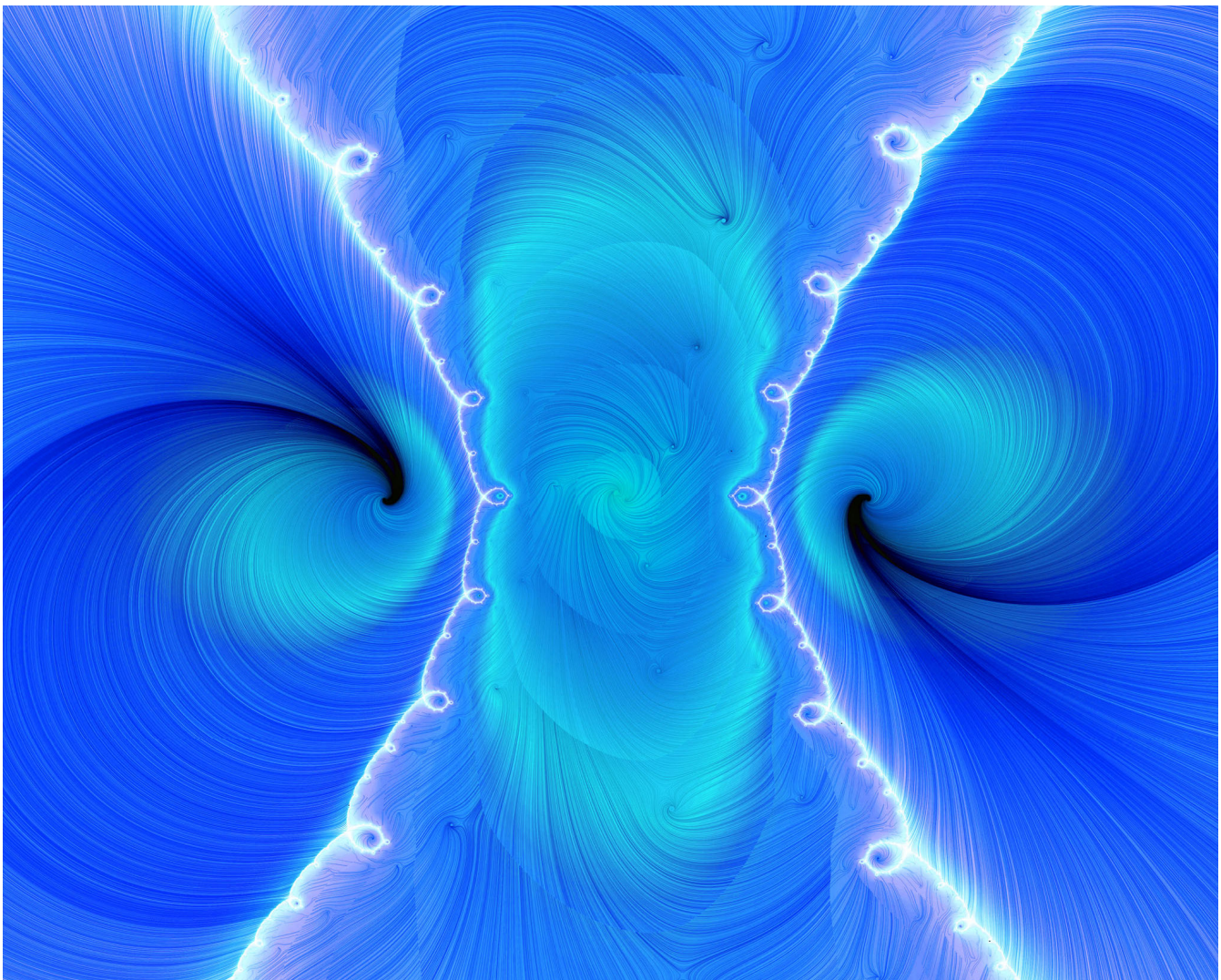


# Enrollment Snapshot of Radiography, Radiation Therapy and Nuclear Medicine Technology Programs — 2012

A Nationwide Survey of Program Directors  
Conducted by the American Society of Radiologic Technologists

January 2013



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## Executive Summary

In October 2012, an invitation to complete an online questionnaire was sent via e-mail to each of the 1,007 radiography, radiation therapy, and nuclear medicine technology programs listed by the American Registry of Radiologic Technologists (ARRT).<sup>1</sup> At the close of the survey on October 31, 2011, a total of 606 responses had been received, yielding an overall response rate of 60.2%.

	Return	Population	Percent Sampled	Margin of Error at the 95% Level
R	471	750	62.8%	±2.8%
T	59	122	48.4%	±9.2%
NMT	76	134	56.7%	±7.4%
Overall	606	1,006	60.2%	±2.5%

This report summarizes findings regarding radiologic sciences enrollment based on the responses from program directors.

### Longitudinal Enrollment Trends 2001-2012

This is the 13th in a series of annual reports from the ASRT on class enrollments in educational programs for radiographers, radiation therapists, and nuclear medicine technologists. The current report includes a section that summarizes the last 13 years of enrollment trends. See Pages 14-17 for a review of those findings.

### Demographic Analysis

- Respondents to the survey were more likely to work at a community college than any other type of institution; 40.3% of respondents work at 2-year institutions, almost double the amount who work at medical centers (26.4%) or 4-year institutions (22.6%). Relatively few respondents work in other settings: 5.8% work at technical colleges, 4.5% work at for-profit schools, and 0.5% work at another type of institution.
- A sizable majority (77.7%) of the respondents are in radiography programs, 12.5% of the respondents are in nuclear medicine programs

and the remaining 9.7% are in radiation therapy programs.

- The overwhelming majority of the respondents' programs are located in the United States (96.4%). Of the remaining programs, 3.5% are located in Canada and 0.2% in Australia.
- Among the respondents whose programs are located in the United States, the South Atlantic region accounts for 20.9% of programs, while the East North Central region accounts for 19.2%. Only 6.1% of the respondents' programs are located in the Pacific region and only 5.1% are in New England.

### 2012 Enrollment Trends

- Radiography programs had a mean number of 20.9 students enter their program in 2012, down by 1.0 students from 2011. This produces an estimate of 15,675 students across all ARRT-recognized programs, down from 16,454 in 2011.
- Radiation therapy programs had a mean number of 11.5 students enter their program in 2012, up by 1.7 students from a mean of 9.8 students entering each program in 2011. This produced an estimate of 1,403 students entering ARRT-recognized programs in 2012, up from 1,204 in 2011.
- Nuclear medicine technology programs had a mean of 10.5 students enroll in their program in 2012, up by 1.7 students from 2011. This produced an estimate of 1,407 students enrolling in ARRT-recognized programs in 2012, up from 1,175 in 2011.

### 2012 Student Capacity

- Among radiography programs, 55.1% are at full enrollment; 46.6% of radiation therapy programs are at capacity. 27.0% of nuclear medicine programs are at capacity.
- Among those programs that are not at full enrollment, the mean number of additional students who could be accommodated is 8.3 for radiography, 6.6 for radiation therapy and 8.7 for nuclear medicine.

<sup>1</sup> American Registry of Radiologic Technologists. ARRT-recognized educational programs. [www.art.org/nd/listOfSchools.ndm/listSchools&iframe=yes](http://www.art.org/nd/listOfSchools.ndm/listSchools&iframe=yes). Accessed September 2012.



- This produces an estimate of 2,795 additional students for all radiography programs, 430 additional students for all radiation therapy programs and 851 additional students for all nuclear medicine programs.
- The mean number of qualified students turned away by radiography programs was 39.5. On average, radiation therapy programs turned away 14.7 qualified students while nuclear medicine programs turned away an average of 6.4 qualified students.
  - These numbers produce an estimate of 16,323 qualified students turned away by radiography programs, 836 qualified students turned away by radiation therapy programs and 232 qualified students turned down by nuclear medicine programs.

### Near-Term Changes

Overall, more program directors plan to increase their enrollment than to decrease it. In the aggregate, 8.0% of program directors plan to increase enrollment, while 5.9% plan a decrease.

- In radiography, 5.2% of program directors plan to increase enrollment while 5.8% plan to decrease their enrollment.
- In radiation therapy, 19.0% plan to increase enrollment while 5.2% plan a decrease.
- In nuclear medicine technology, 17.6% plan to increase enrollment while 6.8% plan a decrease.

Most programs (97.0%) say they are viable over the next few years, while 3.0% say that they are either likely to close or will definitely be closing.

- In radiography, 97.4% of programs said they would either definitely continue to operate or would most likely continue to operate, while 2.6% said they are either likely to close or would definitely be closing.
- Among radiation therapy programs, 98.3% expect to remain in operation while 1.7% expect to close.
- Among nuclear medicine programs, 93.3% of programs expect to continue operating, while 6.6% expect to close.
- Among the programs expecting to stay in operation, 79.7% of radiography programs,

72.4% of radiation therapy programs and 64.0% of nuclear medicine programs were certain that they would continue to operate over the next several years.

### Job Placement of Graduates

- In radiography, 84.8% of graduates from the class of 2011 were able to find employment in their field within 6 months of graduation; 86.1% of 2011 graduates from radiation therapy programs found employment; 57.2% of 2011 graduates in nuclear medicine found employment.
- These placement rates represent a 4.8% increase from 2010 for radiography, a 4.1% increase from 2010 for radiation therapy, and a 0.3% decline from 2010 for nuclear medicine.
- When asked why they thought those students who were unable to find employment were having difficulty, the majority of respondents cited economic considerations: 34.3% said that there were too many graduates in relation to openings, 19.3% believed that facilities cutting back on positions had an adverse effect, 14.9% said that managers were not filling openings, and 12.5% believed that sluggishness in the labor market is due to the current workforce delaying their retirement.

### Academics and Curriculum

- For the majority (56.5%) of programs responding to the survey, the terminal degree earned by graduates is an associate degree; of the remaining programs, 26.3% grant a certificate and 17.1% grant a bachelor's degree.
- When asked which imaging technologies were used at clinical sites, 93.0% said they use DR (cassetteless) technology, 86.2% use CR (cassette-based) technology and 23.6% use film/screen.
- When asked which imaging technologies were used in their on-campus lab, 60.3% said they use CR (cassette-based), 36.7% use film/screen, 30.5% do not have an on-campus lab and 21.6% use DR (cassetteless) technology.
- The majority of programs across all disciplines do not offer coursework online, with 63.9% of

all programs offering no online coursework; 10.0% of programs offer at least 25% of their content online.

### Canada

Many more Canadian programs responded to the survey than have in the past, allowing comparison between U.S. and Canadian programs. Below are several highlights:

- The estimated total enrollment in Canadian programs was 648 in radiography, 317 in radiation therapy and 74 in nuclear medicine, compared with 14,657 in radiography, 1,091 in radiation therapy and 1,329 in nuclear medicine in the United States.
- Canadian programs showed a noticeably higher mean number of students in each entering class. In Canada, there were 32.4 students per entering class in radiography compared with 20.3 in the United States; there

were 19.8 entering students in radiation therapy, compared with 10.7 in the United States; and there were 14.7 students entering nuclear medicine programs, compared with 10.3 in the United States.

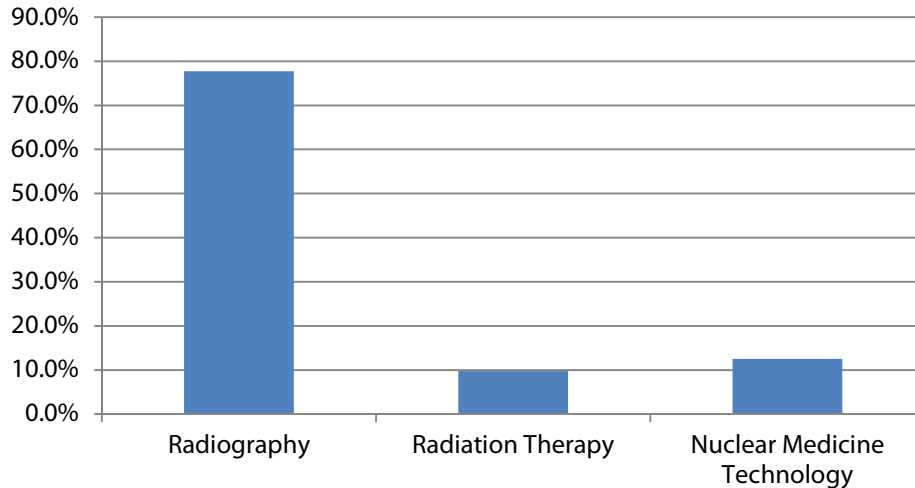
- Canadian programs were also more likely than their U.S. counterparts to be at full enrollment. Among survey respondents, 92.3% of radiography programs, 60% of radiation therapy programs and 100% of nuclear medicine programs were at full enrollment; in the United States, 53.9% of radiography programs, 45.3% of radiation therapy programs and 23.9% of nuclear medicine programs were at capacity.

## Demographics

Indicate your program type.

	Frequency	Valid Percent	Population Distribution	Sample Return as a Percent of Population
Radiography	471	77.7%	750	62.8%
Radiation Therapy	59	9.7%	122	48.4%
Nuclear Medicine Technology	76	12.5%	134	56.7%
<b>Total</b>	<b>606</b>	<b>100.0%</b>	<b>1005</b>	<b>60.3%</b>

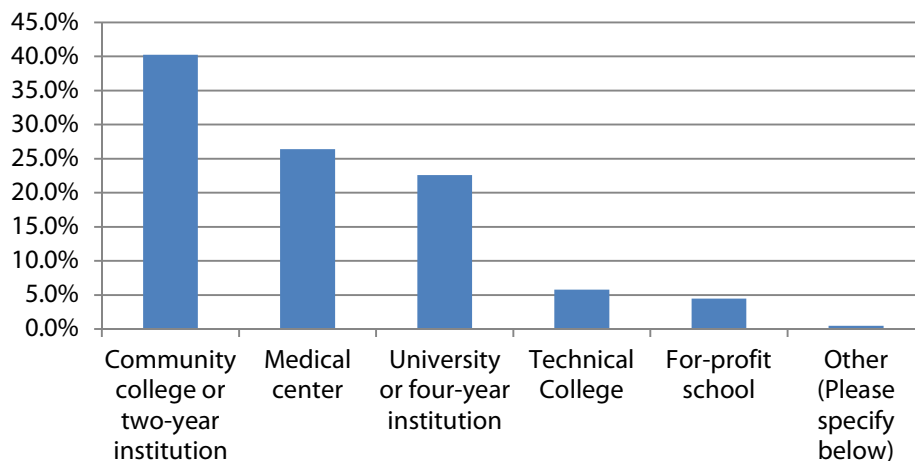
Indicate your program type.



What is your primary place of employment?

	Frequency	Valid Percent
Community college or two-year institution	244	40.3%
Medical center	160	26.4%
University or four-year institution	137	22.6%
Technical College	35	5.8%
For-profit school	27	4.5%
Other	3	0.5%
<b>Total</b>	<b>606</b>	<b>100.0%</b>

What is your primary place of employment?

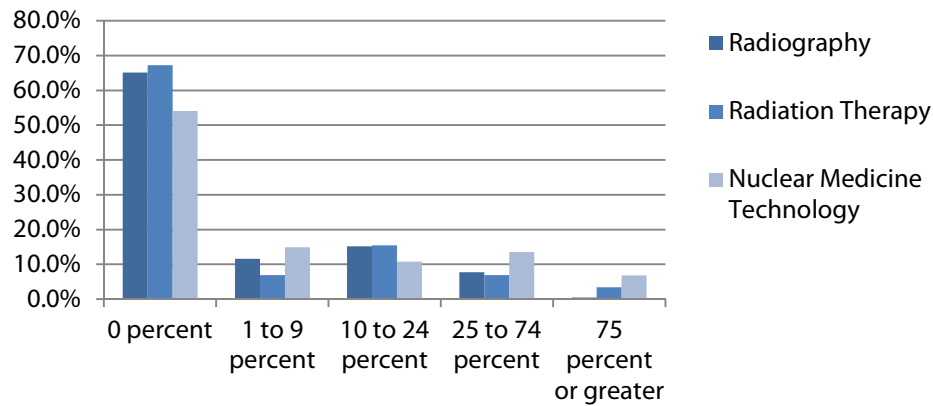


### What percent of the classes in your curriculum can be taken online?

		Radiography	Radiation Therapy	Nuclear Medicine Technology	Overall
0 percent	Count	287	39	40	366
	%	65.1%	67.2%	54.1%	63.9%
1 to 9 percent	Count	51	4	11	66
	%	11.6%	6.9%	14.9%	11.5%
10 to 24 percent	Count	67	9	8	84
	%	15.2%	15.5%	10.8%	14.7%
25 to 74 percent	Count	34	4	10	48
	%	7.7%	6.9%	13.5%	8.4%
75 percent or greater	Count	2	2	5	9
	%	0.5%	3.4%	6.8%	1.6%
<b>Total</b>	<b>Count</b>	<b>441</b>	<b>58</b>	<b>74</b>	<b>573</b>
	<b>%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

<b>Mean</b>	5.9%	9.2%	13.0%	7.1%
<b>SD</b>	12.6%	21.0%	25.6%	16.0%

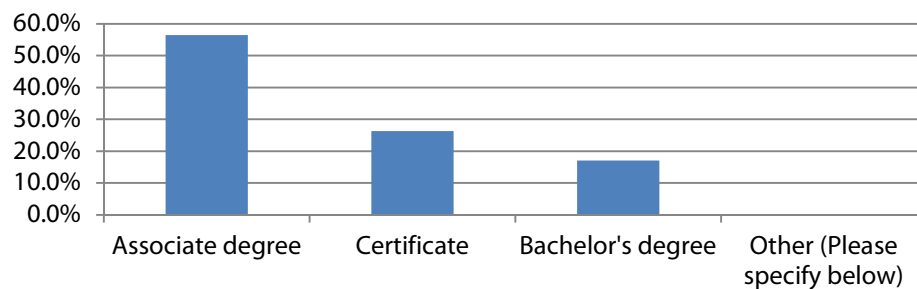
### What percent of the classes in your curriculum can be taken online?



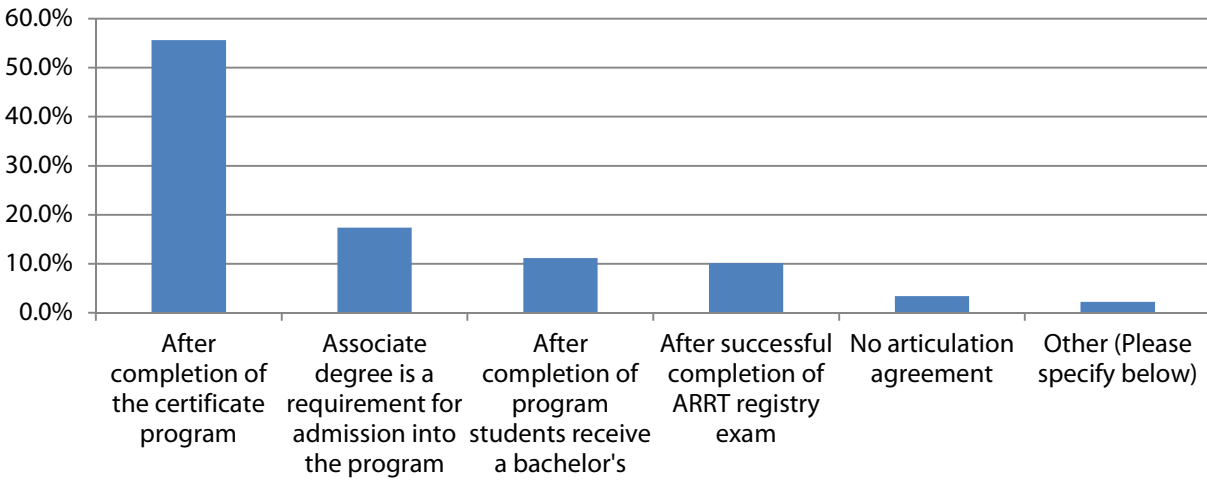
### What is the terminal degree earned by your graduates?

	Frequency	Valid Percent
Associate degree	341	56.5%
Certificate	159	26.3%
Bachelor's degree	103	17.1%
Other	1	0.2%
<b>Total</b>	<b>604</b>	<b>100.0%</b>

### What is the terminal degree earned by your graduates?



**If yours is a certificate program with an articulation agreement, when do your graduates receive their associate degree?**



**If yours is a certificate program with an articulation agreement, when do your graduates receive their associate degree?**

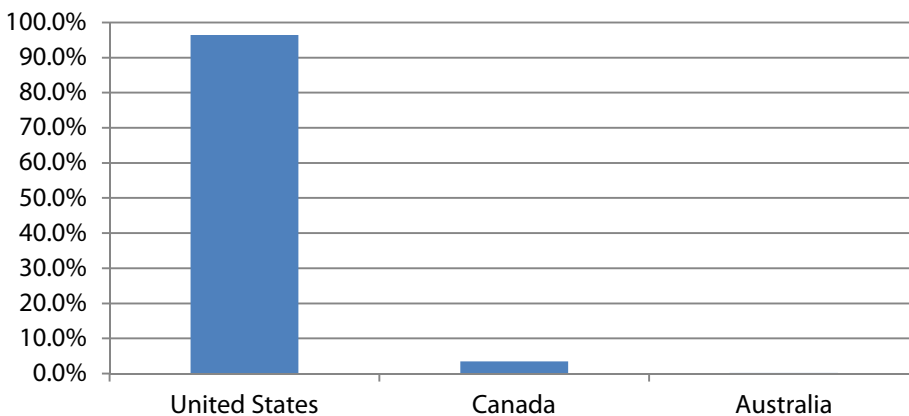
	Frequency	Valid Percent
After completion of the certificate program	99	55.6%
Associate degree is a requirement for admission into the program*	31	17.4%
After completion of program students receive a bachelor's*	20	11.2%
After successful completion of ARRT registry exam	18	10.1%
No articulation agreement*	6	3.4%
Other (Please specify below)	4	2.2%
<b>Total</b>	<b>178</b>	<b>100.0</b>

\*Coded from verbatim responses

**In what country is your program located?**

	Frequency	Valid Percent
United States	585	96.4%
Canada	21	3.5%
Australia	1	0.2%
<b>Total</b>	<b>607</b>	<b>100.0%</b>

**In what country is your program located?**



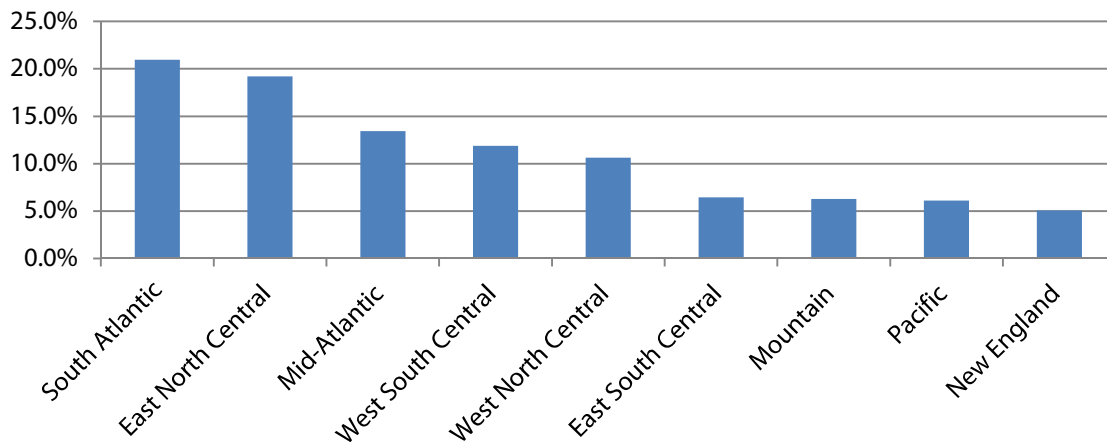


### In what region is your program located?

	Frequency	Valid Percent
South Atlantic (DE, MD, DC, VA, WV, NC, SC, GA, FL, PR)	120	20.9%
East North Central (WI, MI, IL, IN, OH)	110	19.2%
Mid-Atlantic (NY, PA, NJ)	77	13.4%
West South Central (OK, TX, AR, LA)	68	11.9%
West North Central (ND, SD, NE, KS, MN, IA, MO)	61	10.6%
East South Central (KY, TN, MS, AL)	37	6.5%
Mountain (ID, MT, WY, NV, UT, CO, AZ, NM)	36	6.3%
Pacific (AK, WA, OR, CA, HI)	35	6.1%
New England (ME, NH, VT, MA, RI, CT)	29	5.1%
<b>Total*</b>	<b>573</b>	<b>100.0%</b>

\*Total does not include programs outside of the United States.

### If you chose the United States in the question above, please indicate in which region your program is located:

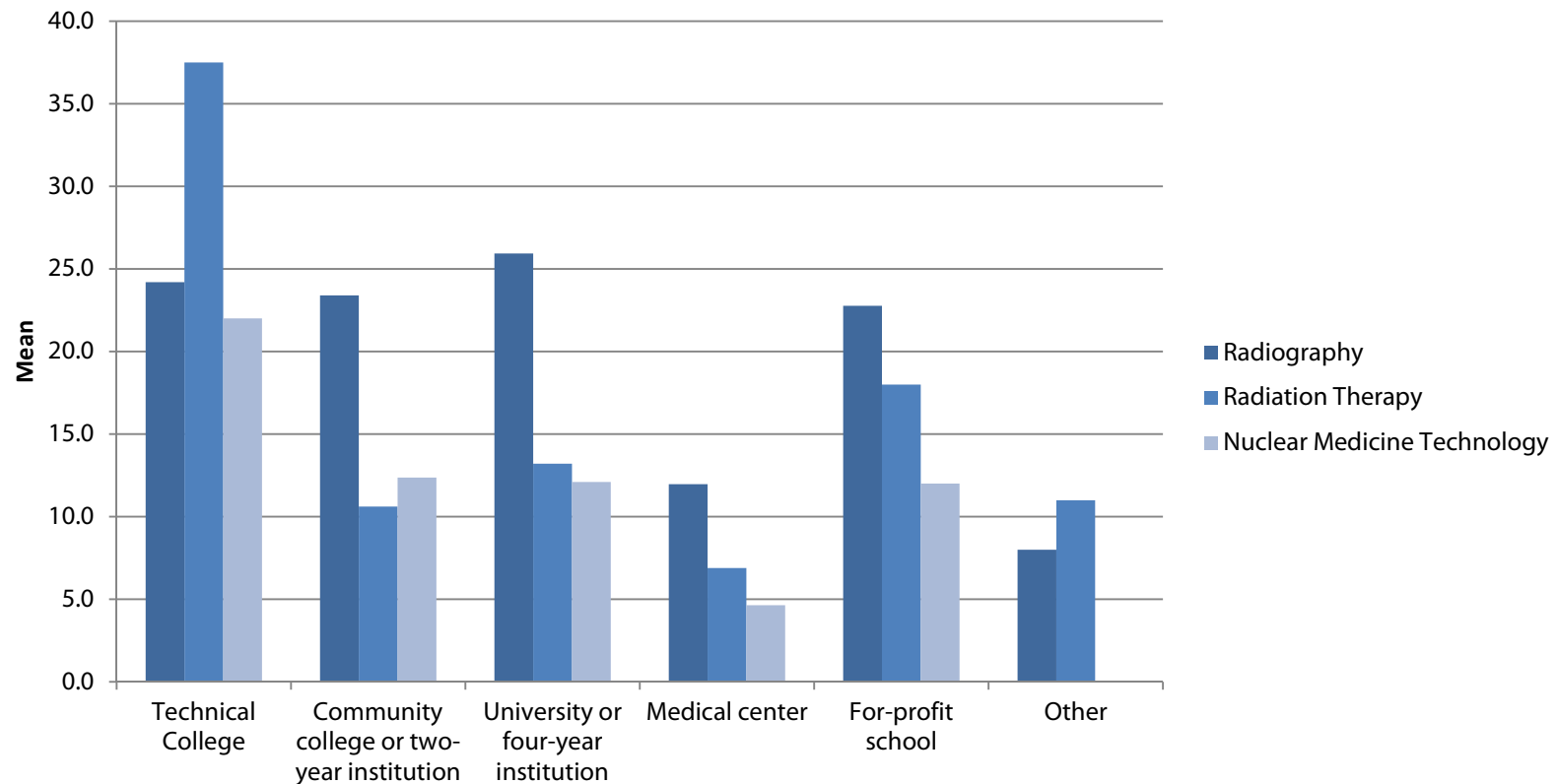


## 2012 Enrollment Analysis

### How many students entered your program?

	Radiography			Radiation Therapy			Nuclear Medicine Technology			Overall		
	Mean	N	SD	Mean	N	SD	Mean	N	SD	Mean	N	SD
Technical College	24.2	30	23.1	37.5	2	38.9	22.0	2	8.5	24.9	34	22.9
Community college or two-year institution	23.4	205	11.3	10.6	18	5.0	12.4	19	7.2	21.6	242	11.5
University or four-year institution	25.9	84	17.0	13.2	15	9.6	12.1	32	10.3	21.1	131	16.2
Medical center	12.0	120	6.4	6.9	18	5.5	4.6	19	2.5	10.5	157	6.5
For-profit school	22.8	21	17.6	18.0	3	14.0	12.0	1	.	21.8	25	16.7
Other	8.0	2	11.3	11.0	1	.	.	.	.	9.0	3	8.2
<b>Total</b>	<b>20.9</b>	<b>462</b>	<b>14.0</b>	<b>11.5</b>	<b>57</b>	<b>10.4</b>	<b>10.5</b>	<b>73</b>	<b>8.7</b>	<b>18.7</b>	<b>592</b>	<b>13.7</b>

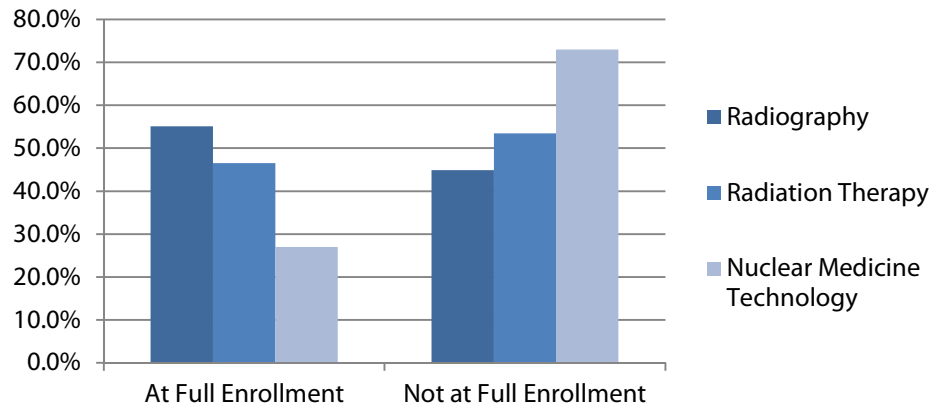
### How many students entered your program?



### Is your program currently at full enrollment?

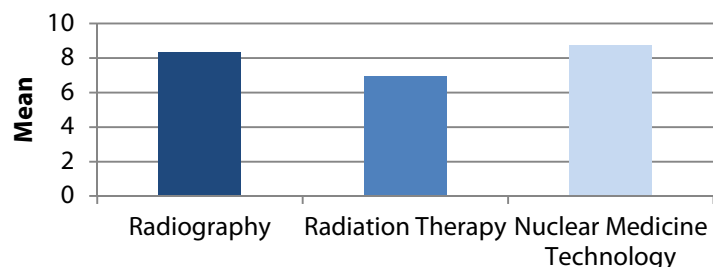
		Radiography	Radiation Therapy	Nuclear Medicine Technology	Overall
Yes	Count	255	27	20	302
	%	55.1%	46.6%	27.0%	50.8%
No	Count	208	31	54	293
	%	44.9%	53.4%	73.0%	49.2%
<b>Total</b>	<b>Count</b>	<b>463</b>	<b>58</b>	<b>74</b>	<b>595</b>
	<b>%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

### Is your program currently at full enrollment?

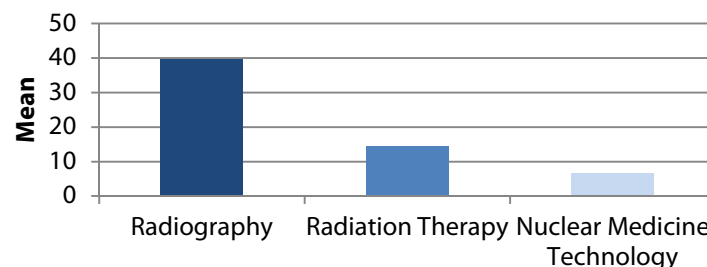


	Radiography			Radiation Therapy			Nuclear Medicine Technology			Overall		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
<b>If you are not at full enrollment, how many additional students could be accommodated by your program?</b>	200	8.3	8.7	30	6.9	6.6	54	8.7	12.6	284	8.2	9.4
<b>How many qualified students did you turn away this fall?</b>	411	39.5	73.6	55	14.4	14.7	68	6.4	17.1	534	32.7	66.2
<b>Attrition rate</b>	422	29.1%	27.9%	53	18.9%	26.3%	68	18.4%	28.1%	543	26.8%	28.1%

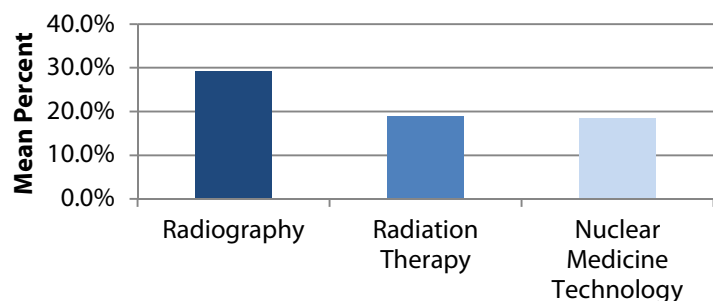
**How many additional students could be accommodated by your program?**



**How many qualified students did you turn away this fall?**



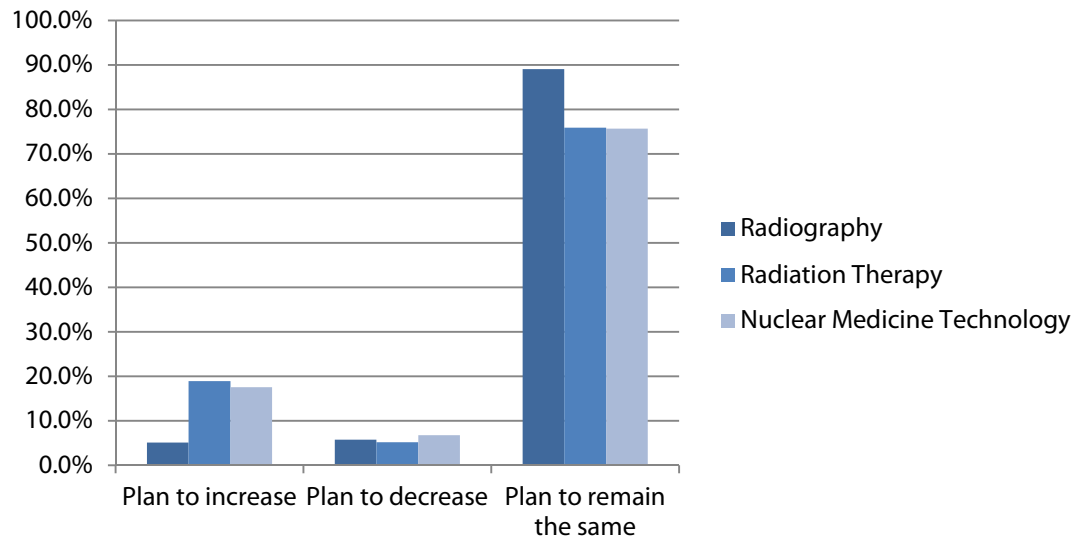
**Attrition rate**



### Do you plan any changes related to enrollment?

		Radiography	Radiation Therapy	Nuclear Medicine Technology	Overall
Plan to increase	Count	24	11	13	<b>48</b>
	%	5.2%	19.0%	17.6%	<b>8.0%</b>
Plan to decrease	Count	27	3	5	<b>35</b>
	%	5.8%	5.2%	6.8%	<b>5.9%</b>
Plan to remain the same	Count	414	44	56	<b>514</b>
	%	89.0%	75.9%	75.7%	<b>86.1%</b>
<b>Total</b>	<b>Count</b>	<b>465</b>	<b>58</b>	<b>74</b>	<b>597</b>
	<b>%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

### Do you plan any changes related to enrollment?

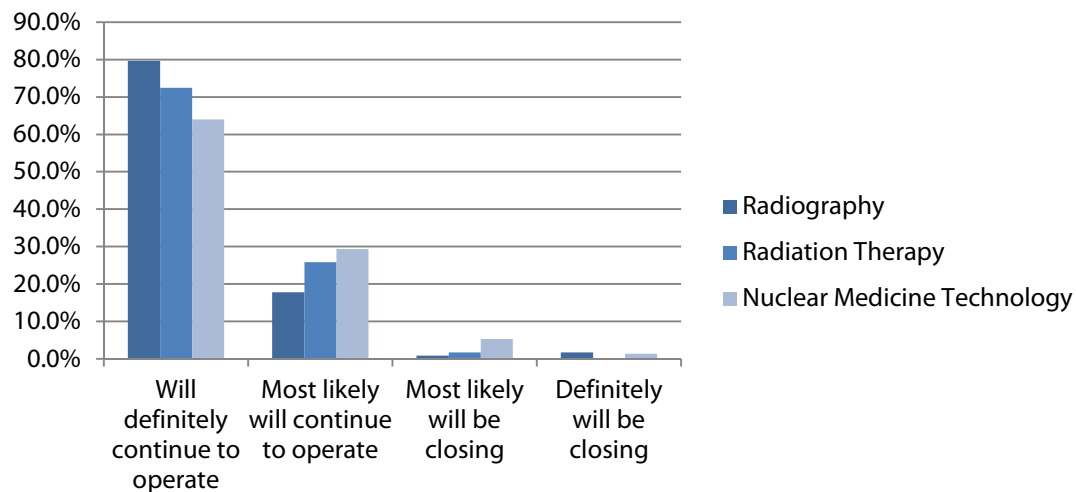




### How viable is your program over the next few years?

		Radiography	Radiation Therapy	Nuclear Medicine Technology	Overall
Will definitely continue to operate	Count	372	42	48	462
	%	79.7%	72.4%	64.0%	77.0%
Most likely will continue to operate	Count	83	15	22	120
	%	17.8%	25.9%	29.3%	20.0%
Most likely will be closing	Count	4	1	4	9
	%	0.9%	1.7%	5.3%	1.5%
Definitely will be closing	Count	8	0	1	9
	%	1.7%	0.0%	1.3%	1.5%
<b>Total</b>	<b>Count</b>	<b>467</b>	<b>58</b>	<b>75</b>	<b>600</b>
	<b>%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

### How viable is your program over the next few years?



### If your program is closing, how many more years will it continue to operate, including this academic year?

Program Type	N	Mean	SD
Radiography	11	1.45	.820
Radiation Therapy	2	2.50	.707
Nuclear Medicine Technology	3	1.67	1.155
Total	16	1.63	.885

## 2012 USA and Canada Enrollment Comparison

### Radiography

	ARRT recognized programs	Number of programs responding to survey with enrollment data	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away	Percent of New Graduates finding employment within 6 months of graduation
<b>USA</b>	722	547	75.8%	20.3	14,657	29.6%	46.1%	8	2,663	35.3	13,737	84.3%
<b>Canada</b>	20	13	65.0%	32.4	648	13.6%	7.7%	60	92	194.45	3,590	85.8%

### Radiation Therapy

	ARRT recognized programs	Number of programs responding to survey with enrollment data	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away	Percent of New Graduates finding employment within 6 months of graduation
<b>USA</b>	102	54	52.9%	10.7	1,091	18.4%	54.70%	7.3	407	14.6	675	85.9%
<b>Canada</b>	16	5	31.3%	19.8	317	25.0%	40.0%	2.5	16	11.8	113	99.5%

### Nuclear Medicine Technology

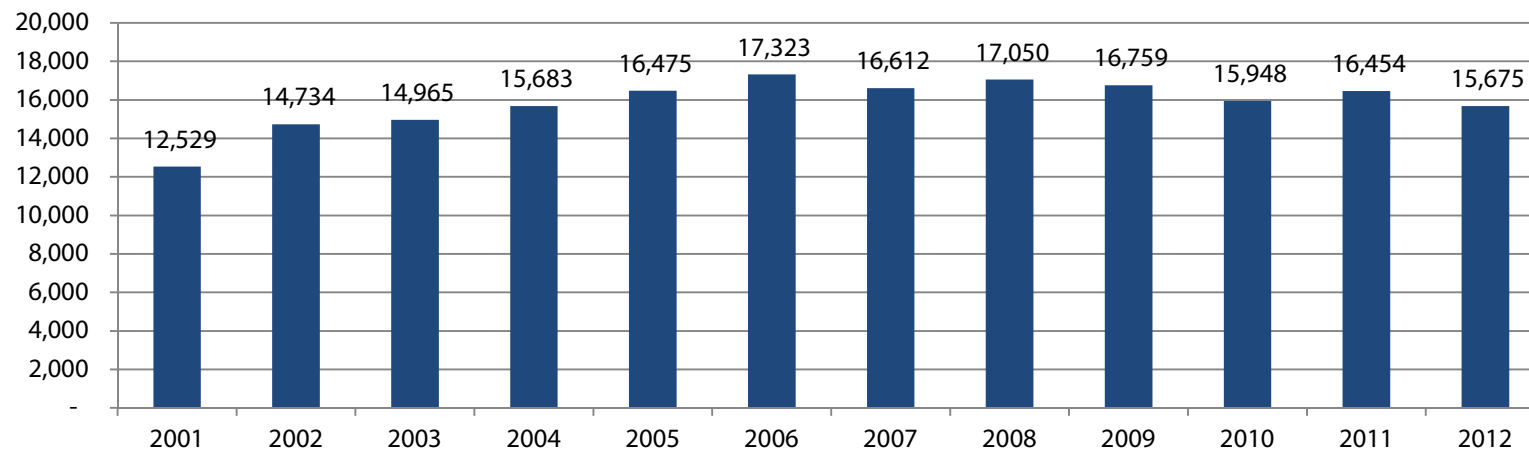
	ARRT recognized programs	Number of programs responding to survey with enrollment data	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away	Percent of New Graduates finding employment within 6 months of graduation
<b>USA</b>	129	73	56.6%	10.3	1,329	18.5%	76.10%	8.7	854	3.9	120	57.2%
<b>Canada</b>	5	3	60.0%	14.7	74	16.0%	0.0%	0	0	42.4	212	74.0%

## Longitudinal Enrollment Trends 2001-2012

### Radiography

Year	ARRT recognized programs	Number of programs responding to survey with enrollment data	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2001	590	445	75.4%	21.2	12,529	21.6%	50.2%	.	.	.	.
2002	631	426	67.5%	23.4	14,734	23.6%	30.9%	8.7	1,688	31.6	13,766
2003	639	456	71.4%	23.4	14,965	21.6%	21.2%	5.8	741	46.8	23,550
2004	684	470	68.7%	22.9	15,683	20.5%	21.7%	7.5	1,106	55.1	29,531
2005	715	468	65.5%	22.8	16,475	18.1%	20.9%	7.4	1,104	50.9	27,131
2006	723	533	73.7%	24.0	17,323	18.4%	22.6%	7.0	1,142	59.2	33,148
2007	729	495	67.9%	22.8	16,612	17.8%	30.2%	7.1	1,558	56.8	28,556
2008	742	520	70.1%	23.0	17,050	21.1%	33.3%	8.4	2,073	50.4	24,914
2009	746	448	60.1%	22.5	16,759	20.8%	40.0%	3.7	1,088	43.4	19,386
2010	751	487	64.8%	21.2	15,948	23.3%	43.7%	7.6	2,490	39.1	16,528
2011	751	433	57.7%	21.9	16,454	25.8%	46.2%	7.6	2,637	37.1	14,978
2012	750	471	62.8%	20.9	15,675	29.1%	44.9%	8.3	2,795	39.5	16,323

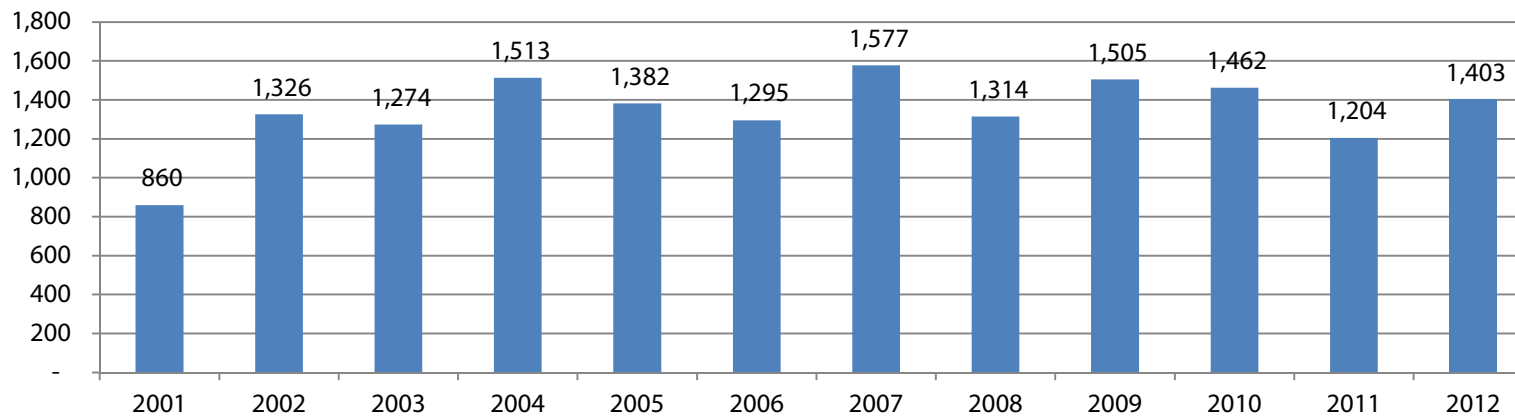
**Estimated total entering class enrollment for all radiography programs**



## Radiation Therapy

Year	ARRT recognized programs	Number of programs responding to survey with enrollment data	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2001	86	52	60.5%	10.0	860	18.1%	44.4%	.	.	.	.
2002	95	57	59.9%	14.0	1,326	11.1%	48.0%	5.7	261	9.1	449
2003	101	58	57.4%	12.6	1,274	18.0%	44.6%	4.4	200	13.6	758
2004	105	58	55.2%	14.4	1,513	11.9%	30.5%	12.5	400	13.4	974
2005	113	64	56.6%	12.5	1,382	16.8%	32.1%	3.4	124	24.5	1,880
2006	118	80	67.8%	11.0	1,295	16.6%	49.3%	6.4	373	21.6	1,291
2007	122	66	54.1%	12.9	1,577	15.2%	51.5%	6.3	395	13.3	931
2008	125	62	49.6%	10.5	1,314	14.4%	58.6%	4.5	330	33.0	1,708
2009	122	60	49.2%	12.5	1,505	10.9%	55.5%	3.7	243	15.8	869
2010	122	70	57.4%	12.0	1,462	18.3%	49.3%	7.9	475	18.0	1,112
2011	123	54	44.1%	9.8	1,204	21.9%	51.9%	6.1	388	14.3	846
2012	122	59	48.4%	11.5	1,403	18.9%	53.4%	6.6	430	14.7	836

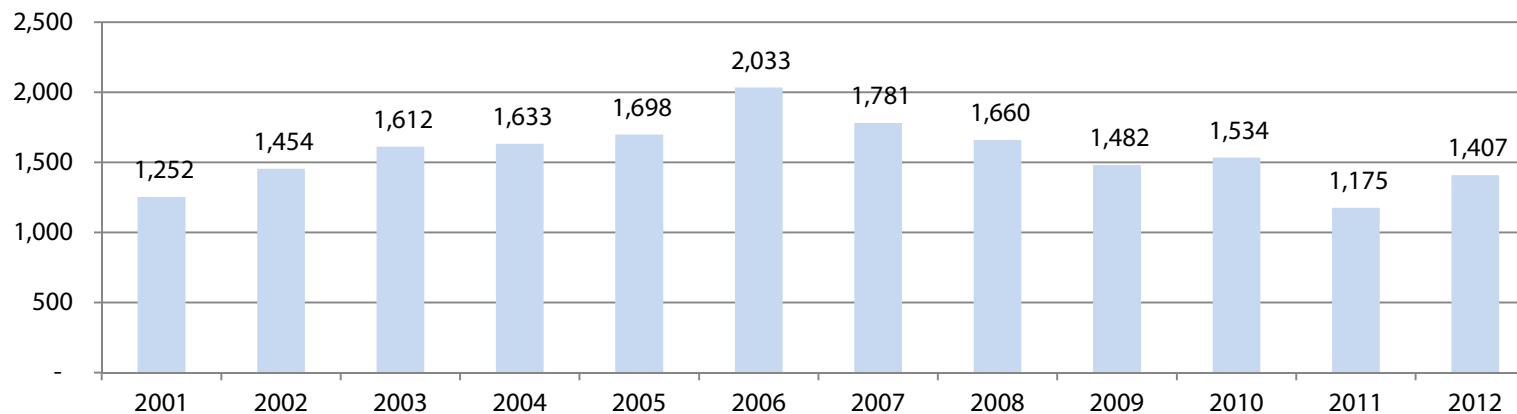
**Estimated total entering class enrollment for all radiation therapy programs**



## Nuclear Medicine Technology

Year	ARRT recognized programs	Number of programs responding to survey with enrollment data	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2001	101	63	62.4%	12.4	1,252	11.8%	53.2%	.	.	.	.
2002	104	58	55.8%	14.0	1,454	8.0%	35.7%	6.7	251	19.7	1,381
2003	111	66	59.5%	14.5	1,612	7.1%	33.3%	2.7	180	32.1	2,375
2004	117	68	58.1%	14.0	1,633	9.8%	20.9%	3.6	88	24.4	2,258
2005	122	63	51.6%	13.7	1,698	8.6%	30.6%	5.1	191	32.9	2,786
2006	131	94	71.8%	15.5	2,033	10.2%	31.8%	5.7	238	30.2	2,697
2007	132	73	55.3%	13.5	1,781	8.3%	39.7%	6.3	331	24.2	1,916
2008	136	81	59.5%	12.2	1,660	12.3%	58.4%	10.0	794	18.2	1,032
2009	136	65	47.5%	10.8	1,482	7.0%	63.0%	4.3	416	9.3	473
2010	136	64	47.1%	11.3	1,534	12.9%	78.8%	7.0	748	12.9	372
2011	134	61	45.7%	8.8	1,175	11.3%	82.5%	7.2	796	8.0	187
2012	134	76	56.7%	10.5	1,407	18.4%	73.0%	8.7	851	6.4	232

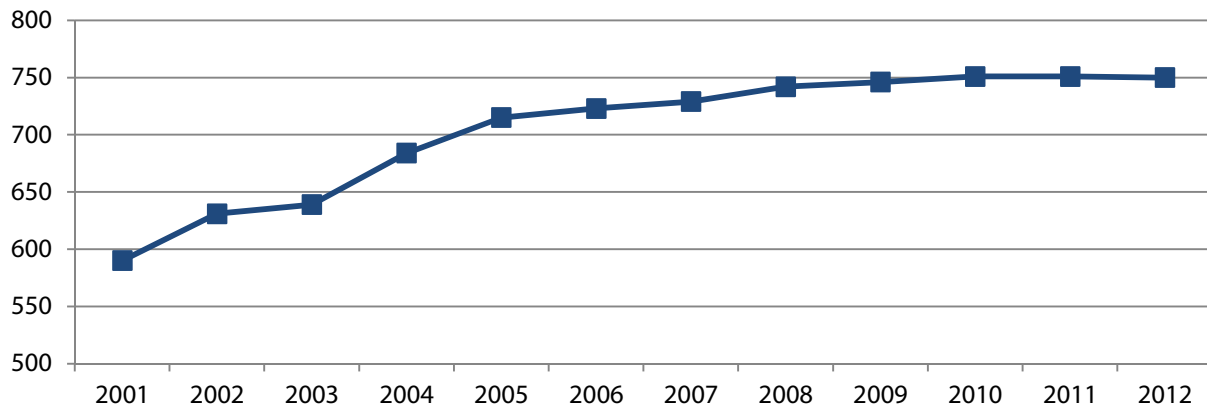
**Estimated total entering class enrollment for all nuclear medicine technology programs**



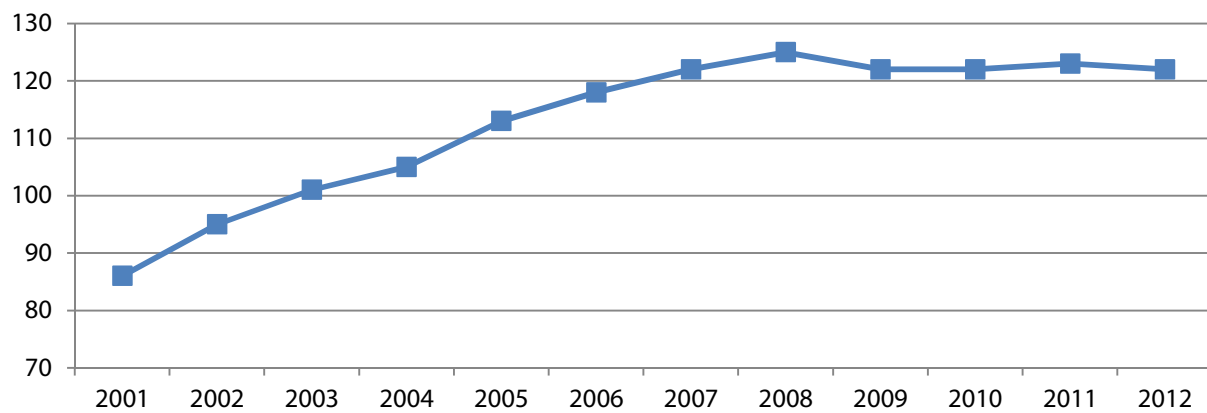


**Number of ARRT-Recognized Programs**

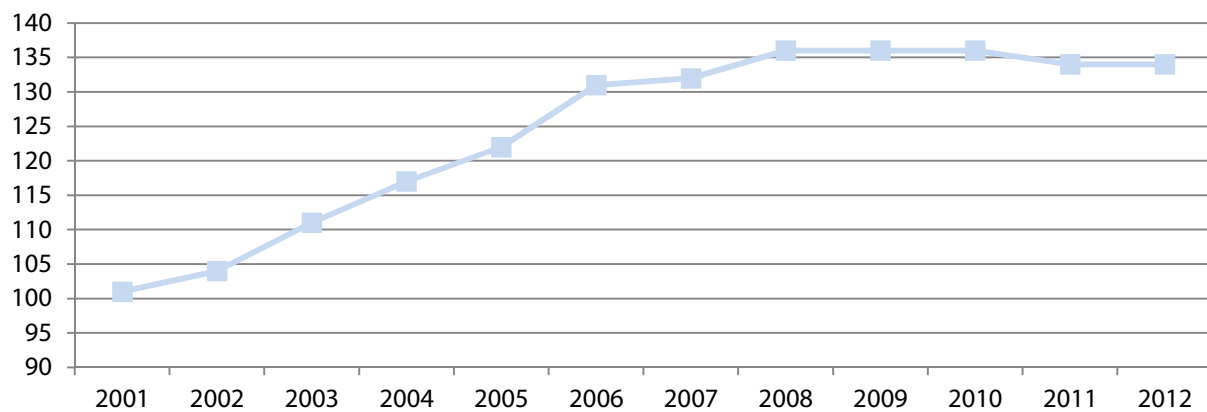
**Radiography**



**Radiation Therapy**



**Nuclear Medicine Technology**



## Job Placement of Graduates

What is the job placement percent rate of students finding employment in their discipline within six months of graduation from your program?

	<b>New England</b> (ME, NH, VT, MA, RI, CT)	<b>Mid-Atlantic</b> (NY, PA, NJ)	<b>East North Central</b> (WI, MI, IL, IN, OH)	<b>West North Central</b> (ND, SD, NE, KS, MN, IA, MO)	<b>South Atlantic</b> (DE, MD, DC, VA, WV, NC, SC, GA, FL, PR)	<b>East South Central</b> (KY, TN, MS, AL)	<b>West South Central</b> (OK, TX, AR, LA)	<b>Mountain</b> (ID, MT, WY, NV, UT, CO, AZ, NM)	<b>Pacific</b> (AK, WA, OR, CA, HI)	<b>Overall</b>
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### Radiography

<b>2008</b>	91.6%	89.7%	89.0%	90.2%	88.9%	88.6%	86.5%	89.8%	91.9%	<b>89.3%</b>
<b>2009</b>	86.2%	80.3%	81.1%	84.1%	82.7%	86.3%	84.5%	79.1%	77.8%	<b>82.2%</b>
<b>2010</b>	82.1%	76.2%	80.8%	82.3%	80.1%	88.5%	85.6%	78.9%	74.2%	<b>80.8%</b>
<b>2011</b>	89.1%	83.5%	86.0%	89.7%	81.2%	89.3%	89.9%	80.1%	73.9%	<b>84.8%</b>

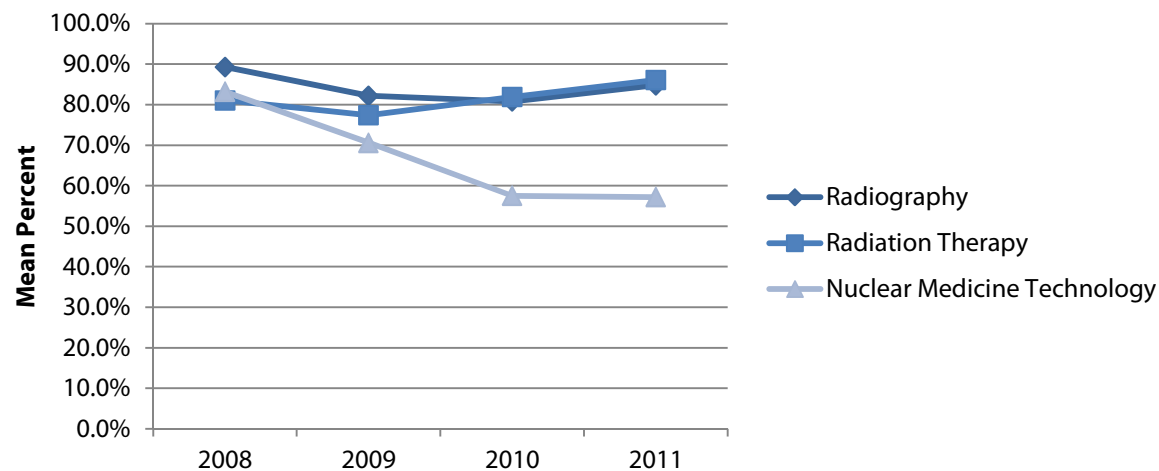
### Radiation Therapy

<b>2008</b>	82.0%	85.4%	82.6%	98.4%	70.5%	64.2%	80.1%	.	96.4%	<b>81.1%</b>
<b>2009</b>	84.2%	83.2%	70.4%	85.3%	70.5%	63.3%	79.8%	.	92.0%	<b>77.4%</b>
<b>2010</b>	74.1%	78.5%	87.7%	79.0%	78.7%	78.3%	89.7%	.	93.3%	<b>81.9%</b>
<b>2011</b>	91.7%	82.6%	88.3%	89.7%	84.1%	82.5%	90.8%	70.0%	100.0%	<b>86.1%</b>

### Nuclear Medicine Technology

<b>2008</b>	83.8%	79.4%	76.7%	86.0%	80.0%	91.2%	90.1%	87.3%	83.9%	<b>83.2%</b>
<b>2009</b>	63.8%	61.6%	63.6%	69.6%	72.4%	87.4%	77.0%	81.7%	76.7%	<b>70.6%</b>
<b>2010</b>	51.7%	50.5%	48.5%	49.5%	58.4%	72.5%	72.6%	.	73.1%	<b>57.5%</b>
<b>2011</b>	38.0%	34.8%	49.9%	76.9%	52.4%	56.8%	78.3%	89.5%	86.0%	<b>57.2%</b>

Overall placement rates for graduates

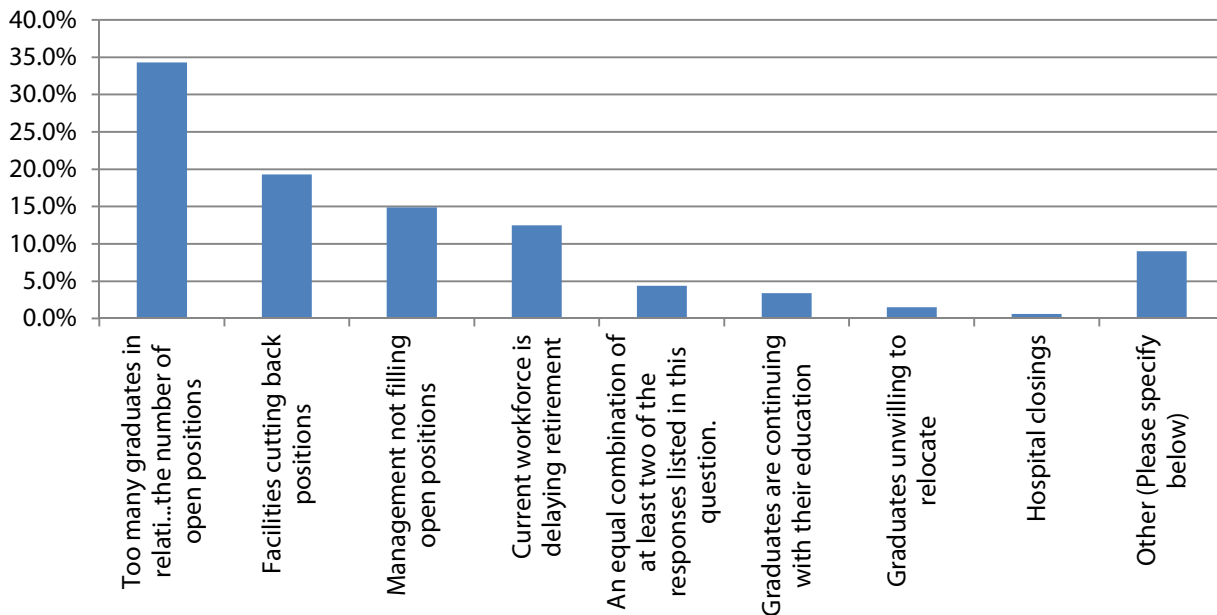


**For those students who haven't been able to find employment after graduation, what do you believe is the primary reason?**

	Frequency	Valid Percent
Too many graduates in relation to the number of open positions	179	34.3%
Facilities cutting back positions	101	19.3%
Management not filling open positions	78	14.9%
Current workforce is delaying retirement	65	12.5%
An equal combination of at least two of the responses listed in this question.*	23	4.4%
Graduates are continuing with their education*	18	3.4%
Graduates unwilling to relocate*	8	1.5%
Hospital closings	3	0.6%
Other (Please specify below)	47	9.0%
Total	522	100.0%

\*Coded from verbatim responses

**For those students who haven't been able to find employment after graduation, what do you believe is the primary reason?**

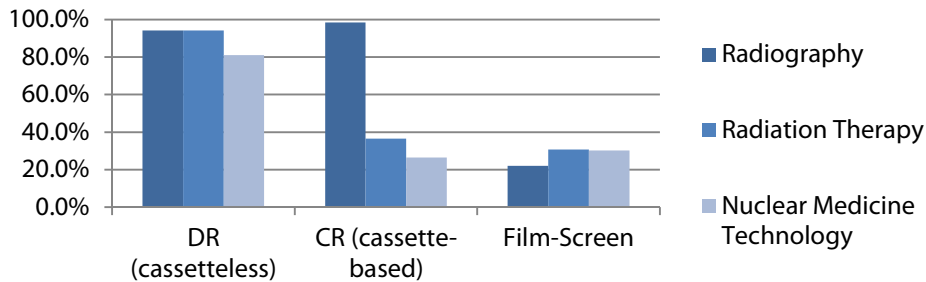


## Imaging Technology

### Which of the following imaging technologies are used at your clinical sites?

		Radiography	Radiation Therapy	Nuclear Medicine Technology	Overall
DR (cassetteless)	Count	440	49	43	532
	%	94.2%	94.2%	81.1%	93.0%
CR (cassette-based)	Count	460	19	14	493
	%	98.5%	36.5%	26.4%	86.2%
Film-Screen	Count	103	16	16	135
	%	22.1%	30.8%	30.2%	23.6%

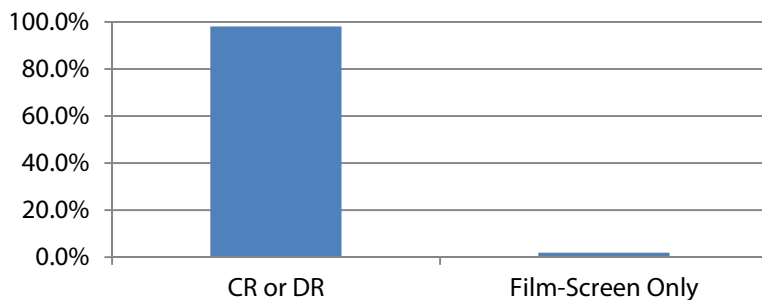
### Which of the following imaging technologies are used at your clinical sites?



### Clinical sites that use Film-Screen only

	Frequency	Valid Percent
CR or DR	563	98.1%
<b>Film-Screen Only</b>	<b>11</b>	<b>1.9%</b>
Total	574	100.0%

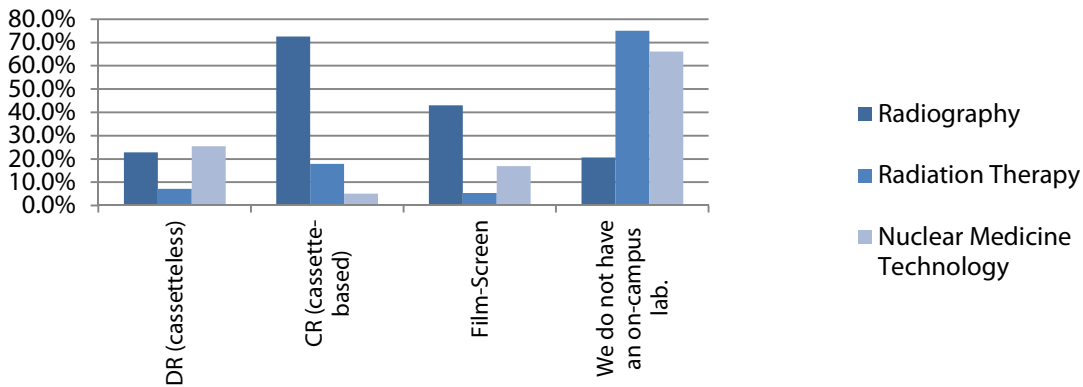
### Clinical sites that use Film-Screen only



### Which of the following technologies are used in your on-campus lab?

		Radiography	Radiation Therapy	Nuclear Medicine Technology	Overall
DR (cassetteless)	Count	106	4	15	125
	%	22.8%	7.1%	25.4%	21.6%
CR (cassette-based)	Count	337	10	3	350
	%	72.5%	17.9%	5.1%	60.3%
Film-Screen	Count	200	3	10	213
	%	43.0%	5.4%	16.9%	36.7%
We do not have an on-campus lab.	Count	96	42	39	177
	%	20.6%	75.0%	66.1%	30.5%

### Which of the following technologies are used in your on-campus lab?



### On-campus labs that use Film-Screen only

	Frequency	Valid Percent
CR or DR	374	64.3%
<b>Film-Screen only</b>	<b>31</b>	<b>5.3%</b>
We do not have an on-campus lab.	177	30.4%
Total	582	100.0%

### On-campus labs that use Film-Screen only

