

# Strategic Planning Committee

## *Import/Export and Migration Patterns of Doctoral and Other Degree Holders*

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**Board of Governors  
Jacksonville, Florida  
July 22, 2004**

# How do we know if we're importing or exporting Ph.Ds and other graduates?

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- Percentages of graduates found employed in Florida
- Census migration data by education and occupation

# What are the national norms for migration of doctoral graduates?

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A National Science Foundation study of U.S.-born science and engineering doctorate recipients in 1999 found that...

- 38% started college in a different state from where they went to high school
- 71% completed their doctorates in a different state from where they started college
- 59% took jobs in a different state from where they completed their doctorate
- **Does not include foreign students**

# How many Florida doctoral graduates are employed in-state?

2001-02 Graduates Found Employed in Florida the Next Fall

	% of Grads Found Empl. in Florida	# of Grads	% of Grads non- Florida Res.	% Foreign Students
Bachelor	65.1%	38,078	7.3%	3.3%
Masters	64.7%	11,355	15.1%	11.0%
<b>Doctorate</b>	<b>31.7%</b>	<b>1,270</b>	<b>34.1%</b>	<b>19.4%</b>

Includes nonresidents and foreign students.

# How does Florida employment of doctorates vary by field?

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	<b>% of Grads Found Employed in Florida</b>	<b># of Grads</b>	<b>% of Grads non-Florida Res.</b>
<b>Education</b>	<b>63.7%</b>	<b>266</b>	<b>6.4%</b>
<b>Engineering</b>	<b>29.8%</b>	<b>195</b>	<b>47.7%</b>
<b>Life Sciences</b>	<b>17.8%</b>	<b>47</b>	<b>53.2%</b>
<b>Physical Sciences</b>	<b>14.8%</b>	<b>110</b>	<b>31.8%</b>
<b>Psychology</b>	<b>35.5%</b>	<b>76</b>	<b>0.0%</b>
<b>All Doctorates</b>	<b>31.7%</b>	<b>1270</b>	<b>34.1%</b>

# Do bachelor-degree graduates show the same pattern?

		% Emp. in FL
% of 2001-02 Bachelor Grads in selected fields found employed in Florida the next fall	52-BUSINESS & MANAGEMENT	68.9%
	13-EDUCATION	80.6%
	45-SOCIAL SCIENCES	56.6%
	51-HEALTH PROFESSIONS	74.6%
	42-PSYCHOLOGY	63.3%
	14-ENGINEERING	53.0%
	23-LETTERS	64.6%
	26-LIFE SCIENCES	52.0%
	50-VISUAL & PERFORMING ARTS	54.6%
	11-COMPUTER SCIENCES	64.6%
	24-LIBERAL/GENERAL STUDIES	61.2%
	44-PUBLIC ADMINISTRATION	70.1%
	19-HUMAN SCIENCES	61.7%
	02-AGRICULTURE SCIENCES	45.1%
	16-FOREIGN LANGUAGES	52.5%
	40-PHYSICAL SCIENCES	38.3%

# If graduates are not found in the employment database, they may be...

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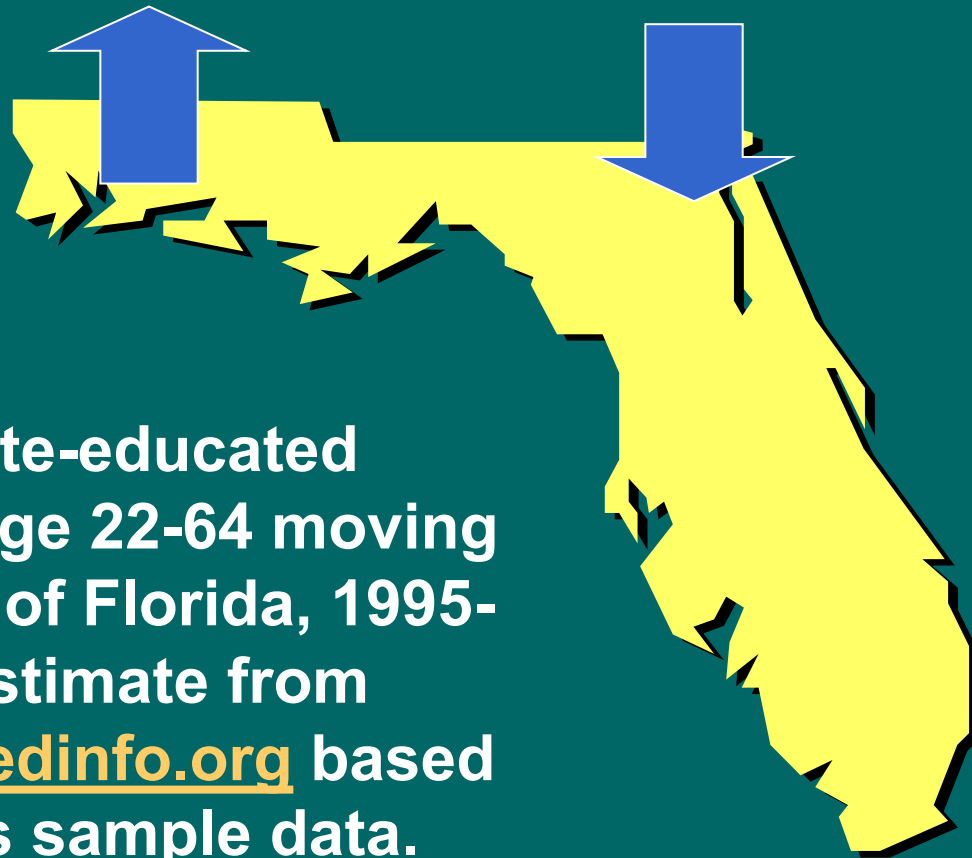
- Self-employed
- Looking for work
- Enrolled in another education program
- Employed out-of-state

# Is Florida importing or exporting holders of doctorates?

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9,328

16,839

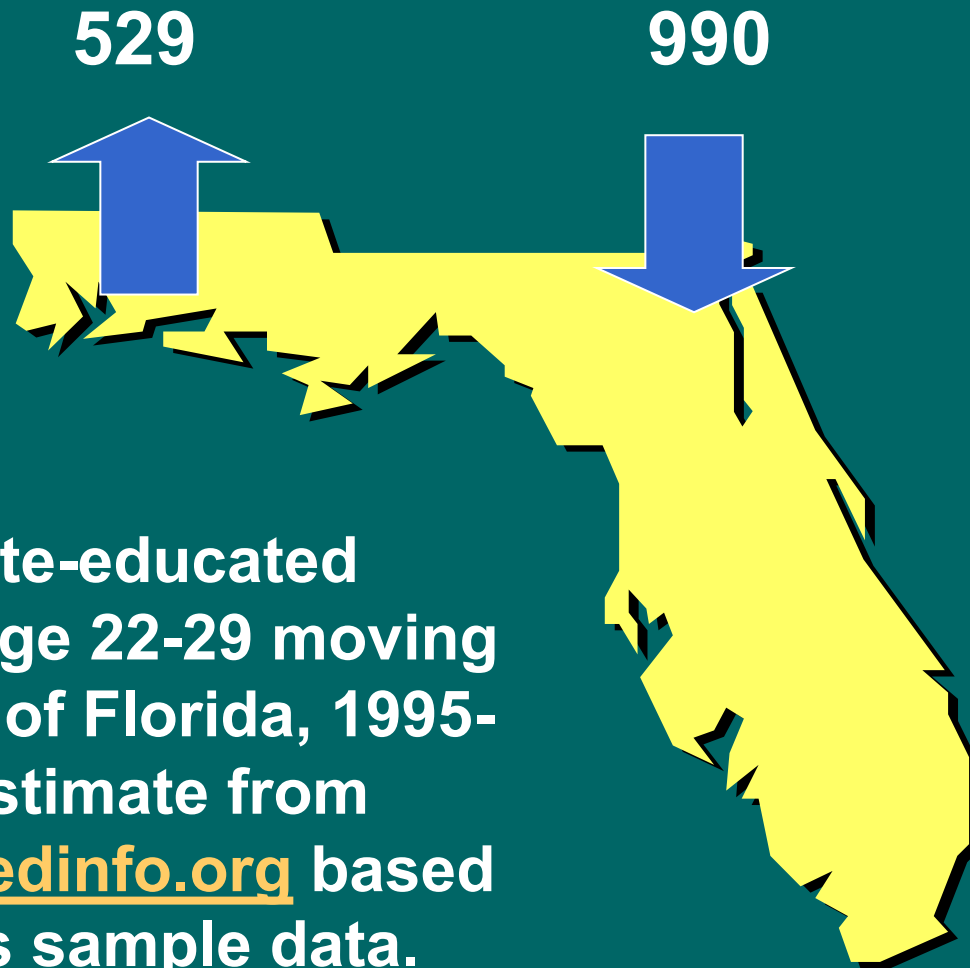


Doctorate-educated population age 22-64 moving into and out of Florida, 1995-2000. Estimate from [www.higheredinfo.org](http://www.higheredinfo.org) based on census sample data.



# Is Florida importing or exporting young doctorate recipients?

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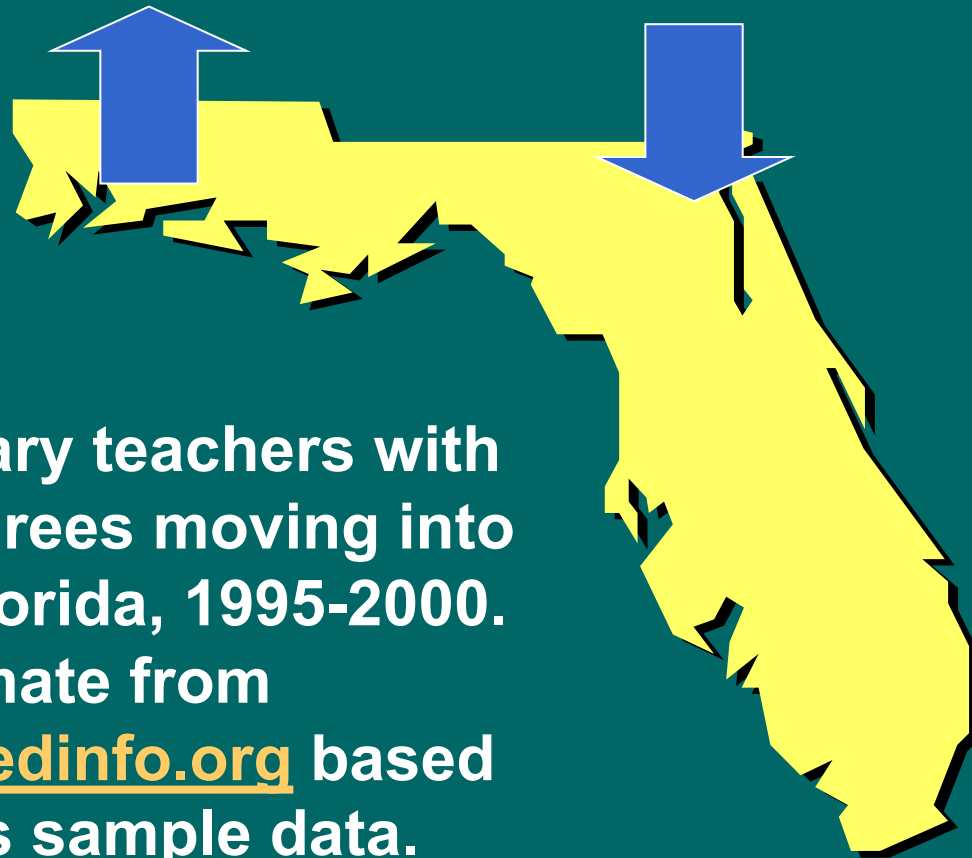
Doctorate-educated population age 22-29 moving into and out of Florida, 1995-2000. Estimate from [www.higheredinfo.org](http://www.higheredinfo.org) based on census sample data.

# Is Florida gaining or losing college faculty?

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4,345

8,300



Postsecondary teachers with graduate degrees moving into and out of Florida, 1995-2000.

Estimate from

[www.higheredinfo.org](http://www.higheredinfo.org) based on census sample data.

# Some possible conclusions

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- Florida's doctoral-level education in research fields has a national and international context
- Undergraduate education serves primarily in-state constituencies
- Local workforce demand cannot be the only factor justifying doctoral-level research programs

# Discussion . . .

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