



*Faculty in Biostatistics*

# BIOSTATISTICS

At UAB, the Department of Biostatistics focuses on the application and development of statistical methods to study health related fields such as public health, medicine, genetics, dentistry, and nursing.

**Our goals are to:**

- Produce research-oriented statistical scientists
- Contribute to the development and evaluation of statistical methods
- Work effectively in interdisciplinary teams to advance knowledge in the biological, biomedical, and behavioral sciences through applications of statistical methodology

For more information,  
please visit our website at [www.soph.uab.edu/bst](http://www.soph.uab.edu/bst)

*UAB Department of Biostatistics*  
(205) 934-4905 | [bstgrad@uab.edu](mailto:bstgrad@uab.edu)

# MSPH / DRPH MS / PHD

## BIostatISTICS DEGREE PROGRAM

The Department of Biostatistics at UAB offers both theoretical and public health (PH) based degree programs at the masters and doctoral levels:

### **MSPH**

- Intended to develop the clinical research skills of medical school faculty members, fellows, and those with an interest in clinical research methods.

### **DrPH**

- Provides a balance between application of biostatistics and public health theory and management for those with an interest in public health leadership and research.

### **MS**

- Provides exceptional skills in applying statistics to medical and public health research, while acquiring a solid foundation in statistical theory.

### **PhD**

- Provides a balance between theory and application of biostatistics with an emphasis on the role of analysis and modeling in scientific research.





# The 5 Ws of Biostatistics @ UAB

## Who?

Anyone with an interest in solving problems with numbers

## What?

Learn how to answer research questions with an analytical approach to data

## When?

After undergrad, military, another graduate degree, or straight from the workforce

## Why?

Everyone needs statisticians! Government, private industry, non-profits & academics

**Where?**  
**@ UAB**  
**of course!**



THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Knowledge that will change your world

Go to

<http://soph.uab.edu/bst/academics>

for more information about our degrees & the application process

Find us here:  @SophBiostat  @SophBiostat  @SophBiostat  @BiostatsUAB

# Everyone is Talking About Biostatistics!

**For nearly a decade now, biostatisticians, statisticians, and data scientists have been highly sought after in the job market. But you don't have to believe us, believe them!**

“We often hear that wages are declining or remaining flat for many workers in the U.S., but that's not the case for statisticians. People with degrees in statistics are highly sought after for their ability to analyze and interpret data and to understand risk and uncertainty,” American Statistical Association president Jessica Utts.

- **Glassdoor 50 Best Jobs in America – # 1 Data Scientist!**  
[https://www.glassdoor.com/List/Best-Jobs-in-America-LST\\_KQ0,20.htm](https://www.glassdoor.com/List/Best-Jobs-in-America-LST_KQ0,20.htm)
- **U.S. News Best Business Job – Statistician:**  
“Move over marketing executive and finance director, and make room for **statistician**, the best job in business”  
<https://thisisstatistics.org/whats-the-best-job-in-business-statistician-according-to-u-s-news-world-report/>
- **Fast Company reports Most In-Demand Job – Data Scientist:**  
“**Data scientists** are among the most wanted hires”  
<https://www.fastcompany.com/3055629/these-are-the-top-25-jobs-in-the-us-this-year>
- **CAREERCast says the Best Jobs for Millennials in 2015 – Statistician**  
“The burgeoning opportunities for **statisticians** are just beginning to take off in any number of industries. Young **statisticians'** skills are in demand, making this one of the top fields for Millennials.”  
<https://www.careercast.com/slide/best-jobs-millennials-2015-statistician>
- **The 25 Hottest Skills that Got People Hired in 2014:**  
“**Statistical Analysis and Data Mining**”  
<https://blog.linkedin.com/2014/12/17/the-25-hottest-skills-that-got-people-hired-in-2014>
- **For Today's Graduate, Just One Word: Statistics**  
“I keep saying that the sexy job in the next 10 years will be **statisticians**,” said Hal Varian, chief economist at Google. “And I'm not kidding.”  
[https://www.nytimes.com/2009/08/06/technology/06stats.html?\\_r=0](https://www.nytimes.com/2009/08/06/technology/06stats.html?_r=0)

# Top 8 Master's in Biostatistics Degrees Online 2019



- #1 University of Florida
- #2 University of Nebraska Medical Center
- #3 University of Memphis
- #4 Monroe College
- #5 University of Southern California
- **#6 University of Alabama at Birmingham**
- #7 East Tennessee State University
- #8 University of South Carolina – Columbia

Earning a master's degree in biostatistics can lead to unique opportunities in the public health field. The University of Florida provides a clear and helpful definition of the field: biostatistics "uses data analysis to investigate the cause of disease and injuries, as well as to identify health trends within communities."

This unique field has a practical application to daily life in communities all around the world. If you have an interest or background in biostatistics and want to advance your education, keep reading to find a unique learning opportunity to help you meet your career goals.

## 6. University of Alabama at Birmingham Multiple Biostatistics Master's Degree Programs

The University of Alabama at Birmingham (UAB) consistently offers unique, affordable and flexible public health programs. UAB is striving to solve problems and invest in research. The UAB School of Public Health is accredited by the CEPH. The Department of Biostatistics at UAB offers multiple exciting graduate programs to eligible prospective students.

The MS in biostatistics program is offered in a primarily in-class format, but students may have the option to take a class online. The degree is for those interested in pursuing careers in research management, statistical analysis or to further their education through a PhD program.

The biostatistics department at UAB additionally offers a MS in public health in clinical and translational science. This is an applied statistics degree but has a focus on public health.

If you have an interest in developing and leading research programs and projects, this unique master's program may be right for you. If you're interested in the integration of data, population studies and health, an advanced degree in biostatistics from UAB may be a good fit for you! Prospective students should discuss the class format options with UAB to find the best options.

<https://www.masterspublichealth.net/best/online-masters-biostatistics/>

*Note:* UAB does not offer a fully online masters program in Biostatistics, but certain courses in the curriculum have online options available at times.

# → Biostatistics ←



# 1 Best  
MS Degree!  
Forbes

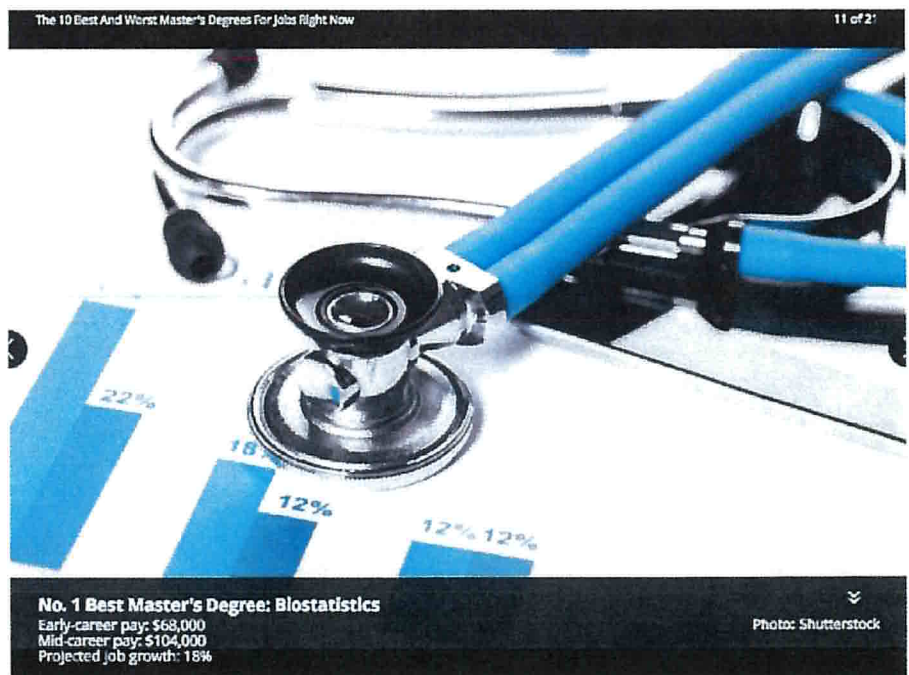
## The 10 Best And Worst Master's Degrees For Jobs Right Now

Each year, Forbes turns to compensation data site Payscale for mid-career data on 45 popular master's degrees. The ranking considers pay growth from early to mid-career of those holding each degree, as well as job satisfaction, stress, meaning derived from the work, and the Bureau of Labor Statistics' (BLS) projected employment growth of jobs associated with each degree to determine which fields are promising graduates the best collection of factors—both tangible and intangible.

Photo: Shutterstock

## High Salary, Pay Growth & Job Satisfaction:

- The mid-career median salary for those with Biostatistics degrees is \$104,000
- High marks for job satisfaction and meaning
- 151% pay growth from early to mid-career
- 18% projected job growth land *\*this degree\** at the top of the list

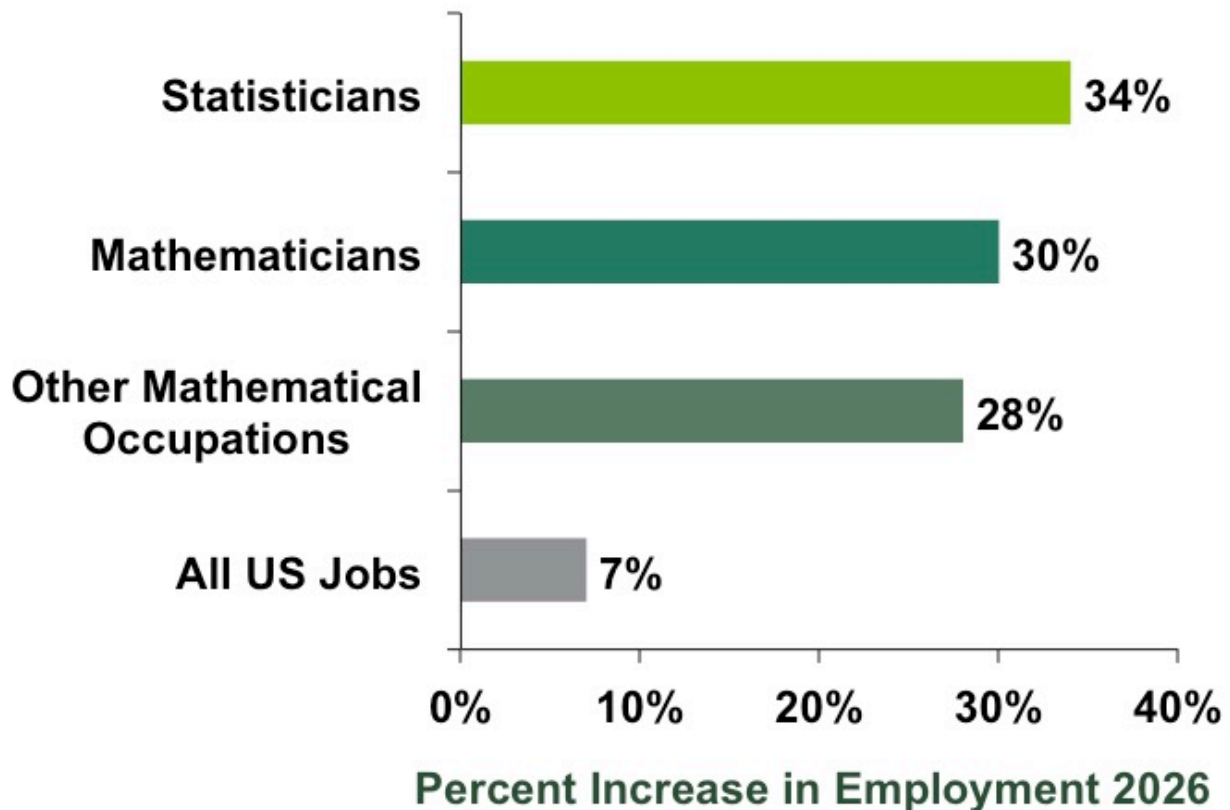


Get your MS in Biostatistics from UAB: <http://soph.uab.edu/bst>

The Best and Worst Master's Degrees for Jobs in 2016: <https://tinyurl.com/yboeoc55>  
psst... MS in Statistics is #2!

# Biostatistics Jobs

The US Bureau of Labor Statistics projects that employment for statisticians will grow 34% by 2026



**“Growth is expected to result from more widespread use of statistical analysis to make informed business, healthcare, and policy decisions”**

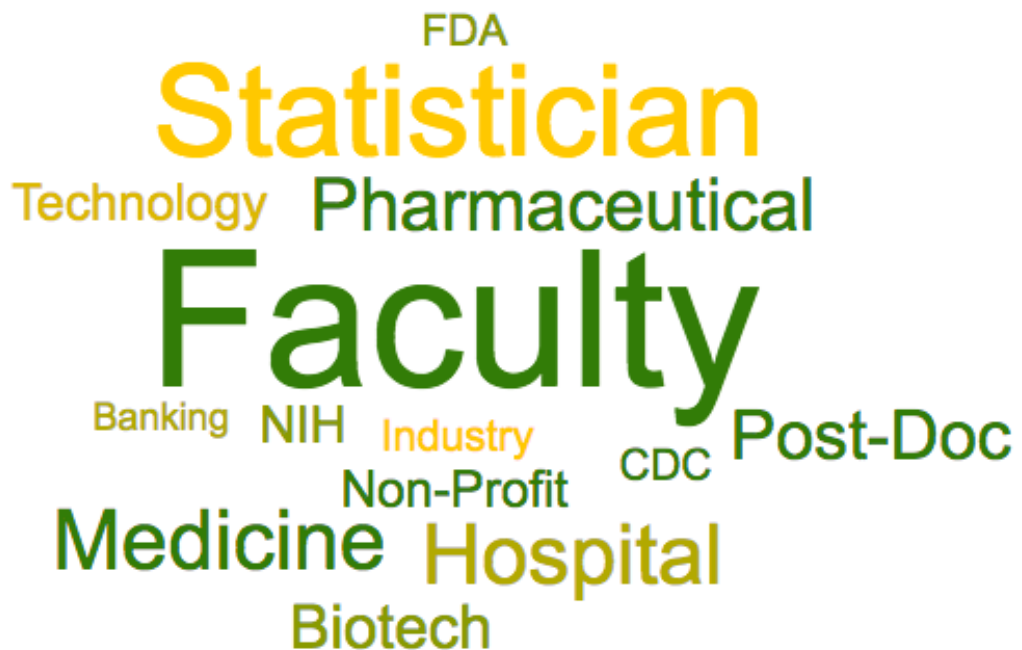
**Get your degree in Biostatistics from UAB:**

**<http://soph.uab.edu/bst>**

The complete job report on statistics: <https://tinyurl.com/yb4n9mxm>

## Q: Where do UAB Graduates Go?

**A: Wherever they want!**



Since 2007, UAB Biostatistics graduates have gone to:

- **45% in Academia:**
  - 23% Faculty
  - 22% Staff Statistician or Research Associate
- **12% to a Medical Center or Hospital**
- **11% to Technology based companies**
- **10% to Pharmaceutical companies**
- **9% to the US Federal government: FDA, CDC, or NIH**
- **7% to Post-Doctoral fellowships**
- **4% to other health based companies**





## The Department of Biostatistics

### Application Information

#### Minimum General Requirements:

- Bachelor's Degree (BA/BS) from an accredited college or university with a GPA of 3.0 or higher (4.0 scale)
- General GRE is currently required (no subject specific tests):
  - MSPH & MS: 147 Verbal, 150 on Quantitative
  - DrPH & PhD: 70<sup>th</sup> percentile on both Verbal and Quantitative
- IETLS of 6.5 or TOEFL of 80 for those with a primary language other than English
- Three letters of support
- Statement of Interest from applicant
- *Note: meeting minimum requirements does not guarantee admission*

#### Application Deadlines:

- MSPH, MS, PhD US Applicants: May 1
- All DrPH & All International Applicants: April 1

#### MS & PhD in Biostatistics

- Apply via UAB Graduate School
- Linear Algebra & 3 Semesters of Calculus

#### MSPH & DrPH

- DrPH via SOPHAS
- MSPH via UAB Graduate School
- Linear Algebra & 2 Semesters of Calculus

For More Application Information: <https://www.soph.uab.edu/apply>

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*For more information, please visit our website at [www.soph.uab.edu/bst/](http://www.soph.uab.edu/bst/)*



# Birmingham

DenisTangneyjr/iStockphoto.com255948



These are just a few of the reasons to live in Birmingham

Flip over to read what others have to say about the Magic City!

# All About Birmingham

- ❖ **Top 100 Cities:** The cultural epicenter of Alabama, Birmingham has art museums, theaters, concert venues and numerous festivals and events, and historical landmarks.
  - <https://realestate.usnews.com/places/alabama/birmingham>
- ❖ **Low Cost of Living:** Birmingham has leading public schools, nationally recognized museums and restaurants, all a cost that is about 91% of the national average.
  - <https://www.birminghambusinessalliance.com/cost-of-living/>
- ❖ **Great Food:** Zagat Magazine rated Birmingham the #1 Hot Food City, because of its award winning restaurants, authentic BBQ, and broad range of casual, fresh, young chefs, with low-cost, contemporary and fine dining local places to eat!
  - <https://www.zagat.com/v/birmingham-is-americans-next-hot-food-city>
- ❖ **Outdoor Lifestyle:** From golf, to hiking, to parks, Birmingham has consistently been rated one of the best places to be outside. Railroad Park, near UAB, has won awards for best urban park!
  - [https://www.bizjournals.com/birmingham/morning\\_call/2015/04/railroad-park-named-one-of-the-10best-parks-that.html](https://www.bizjournals.com/birmingham/morning_call/2015/04/railroad-park-named-one-of-the-10best-parks-that.html)
- ❖ **Tech Central:** Thanks in part to UAB, Innovation Depot, and Tech Birmingham, Birmingham has been called the Silicon Valley of the South. With a city-wide innovation week and Sloss Tech Festival, Birmingham is the tech-savvy place to be!
  - <https://www.forbes.com/sites/zarastone/2018/08/12/inside-birmingham-bid-to-become-the-southern-silicon-valley/#210fada31f70>
- ❖ **So much more:** Birmingham has an award winning AAA baseball stadium, nationally ranked collegiate sports teams, nationally ranked suburban areas, an internationally known healthcare reputation, Sidewalk Film Festival, award winning local breweries...and the list goes on!



## Cost of Living in Birmingham (\* indicates Lowest cost)



City, State	School	Tuition	Rent by City (2 Bedroom)	Basic Monthly Utilities	Gas / Gallon by State	Mid-range dinner out for 2 people by City	% State Average vs US Overall
United States	Average	NA	1,240	151	2.82	50	100
<b>Birmingham, AL</b>	<b>UAB</b>	<b>8,739*</b>	<b>750*</b>	<b>179</b>	<b>2.58*</b>	<b>45</b>	<b>91*</b>
Atlanta, GA	Emory	20,900	1,029	166	2.73	50	108
Chapel Hill, NC	UNC	16,764	1,211	136	2.70	50	110
Baltimore, MD	Johns Hopkins	13,536	938	163	2.71	63	91*
Boston, MA	BU Harvard	BU: 17,605 Harvard: 14,740	1,697	158	2.85	70	94
Philadelphia, PA	Penn	12,378	968	149	3.02	60	102
Iowa City, IA	U of Iowa	15,314	939	121*	2.74	43*	111
Ann Arbor, MI	UM-Ann Arbor	15,669	1,445	160	2.83	45	107
Seattle, WA	UW-Seattle	11,682	1,346	157	3.53	60	95
Los Angeles, CA	UCLA	10,647	1,756	143	3.81	65	112

### Sources:

- Tuition: Approximate full time tuition for 1 semester, excludes housing. Obtained from each school website rates.
- Rent data: <https://www.apartmentlist.com/rentonomics/national-rent-data/> (except Iowa, North Carolina, Michigan from [www.rentcafe.com](http://www.rentcafe.com))
- Basic Utilities (electric, heating, cooling, water, garbage for 915 sq foot apartment): <https://www.numbeo.com/cost-of-living/>
- Gas Prices as of October 30, 2018: <https://gasprices.aaa.com/state-gas-price-averages/>
- Dinner out: <https://www.numbeo.com/cost-of-living/>
- Cost of living by state: <https://www.usatoday.com/story/money/economy/2018/05/10/cost-of-living-value-of-dollar-in-every-state/34567549/>

