DESIGN YOUR FUTURE

Make clear, educated choices today for success tomorrow

Planning your future is exciting and ididio gives you the information you need to find the career, school, and area of study that's right for you. Robust charts and details allow you to draw comparisons and target the areas that matter to you most.

WHAT WE OFFER

Explore ididio and find the tools you need to make wise choices.
Mathematicians and statisticians analyze data and apply mathematical and statistical techniques to help solve real-world problems in business, engineering, healthcare, or other fields.

**OVERVIEW**

**PREDICTED EMPLOYMENT GROWTH**

Over the next decade, jobs for statisticians are expected to grow by 34%, and should have about 4,400 job openings a year.

**SAFETY FROM AUTOMATION**

Statisticians are less likely to be automated than 70% of other careers.

**WORKFORCE SIZE**

Statisticians, with 37,200 workers, are near the middle of all careers in the number employed.

**EDUCATION**

About 58% of mathematicians and statisticians have a graduate-level education, and 93% have at least a bachelor's degree.

**CONTEXT: WORKERS WITH GRADUATE DEGREES**

More mathematicians and statisticians have graduate degrees than 94% of other careers.

**SOURCES:** 2016 BLS EMPLOYMENT PROJECTIONS | 2017 HOW SUSCEPTIBLE ARE JOBS TO COMPUTERISATION? | 2018 OCCUPATIONAL OUTLOOK HANDBOOK

**SALARIES**

The median (middle) salary for statisticians is higher than 88% of all other jobs' middle salaries. The graph shows inflation-adjusted salaries for most statisticians.

**JOE BENEFITS**

Employer or union-sponsored pension plans are offered to 71% of mathematicians and statisticians, and 77% have company-sponsored health insurance (19% have dependents enrolled in their employer's health plan).

**GENDER**

Women account for 48% of mathematicians and statisticians -- that's a larger percentage than 62% of other jobs.
RACE/ORIGIN

About 32% of mathematicians and statisticians are minority, and 29% are foreign-born.

WHERE ARE THE MOST JOBS?

We ranked the number of jobs in Statisticians per thousand workers in each state, DC, and Puerto Rico. The darker the blue, the higher the job density.

TOP COLLEGE DEGREES

Here are the top college degrees held by the 94% of people in this job who have at least a bachelor's degree. Some of degrees may link to multiple programs due to the way Census classifies college majors. Click on a program to learn more about career opportunities for people who major in that field.

1. Mathematics
2. Statistics and Decision Science
3. Economics
4. Business Management and Administration
5. Psychology

THE DOWNSIDE

Some jobs are more stressful than others, and some are just plain dangerous. The following list gives the percentages of statisticians who report hazardous or difficult situations typically occurring at least once a week.

- Time Pressure (47%)

SOURCES: 2019 IDIDIO/RACE/ORIGIN, 2017 ACS MICRODATA

SOURCES: 2019 IDIDIO: EMPLOYMENT ACROSS STATES

SOURCES: 2018 BLS OCCUPATIONAL EMPLOYMENT

SOURCES: 2017 ACS MICRODATA

SOURCES: 23,200 O*NET
A look at employers and corresponding salaries

The donut shares the breakdown of workers by employer type, and following we show the salary distributions for these workers based on those employer types. For some careers, the salaries can be vastly different between private, government, and self-employment. As with our salary overview, we view the both the BLS economists' salary profiles and the household-reported salaries from ACS to get a thorough understanding of where statisticians work and for what salary. We have the great faith in the accuracy of economist-vetted BLS data; however, the BLS restrictions on which employers are surveyed skews the data a bit (read more in the sources), and the ACS responses provide different and useful categorizations of employers and salaries.

Distribution: Salaries of mathematicians and statisticians by type of employer (ACS data)

Following are the salary distributions by employer type calculated by aggregating individual household survey responses. These salaries were reported for the larger career group of mathematicians and statisticians, which combines the 4 specialties for this career.

Distribution: Salaries of statisticians by type of employer (BLS data)

Following are the salary distributions by employer type as reported by BLS based on large employer-focused surveys. We note that smaller employer categories are not included by BLS. Remember that the BLS salaries are for the specialty statisticians, and may differ significantly from the ACS salary estimates which combine several career specialties.
Mathematicians and statisticians and gender

With 48% women, this occupation has a higher percentage of women than 62% of careers.

Context: Women in the workforce

Distribution: Salaries by gender

The median salary for all full-time male workers in the US exceeds the full-time median salary for women by 23%. The situation is a little better for mathematicians and statisticians, with the median salary for men 12% higher than the median salary for women. This chart shows you the salary range for most workers.

Context: Salary Inequity

Nationwide there are twenty careers for which men do not have a higher median (middle) salary than women. The chart below shows the salary inequity, the percentage by which the median men’s salary is higher than the median women’s salary, for most jobs. Mathematicians and statisticians have one of the smaller percentage increases for men’s salary, with the increase the men’s median salary over the women’s median salary in this job lower than that for 68% of other jobs.
The link between degrees and careers

With the following "sankey" diagram, you can follow the top ten bachelor's degrees held by people working as mathematicians and statisticians, and then, in turn, you can see the 10 occupations that hire the most of each degree's graduates. This visualization links fields of studies and careers, suggesting both similar careers and options for degrees. The full list of bachelor's degrees held by mathematicians and statisticians given in the previous section reminds us that there are many paths to these careers beyond what we can summarize here.
Exploring actual employment trends versus projected trends

Currently, jobs for statisticians are anticipated to grow by 34% over the next decade; only 1% of jobs are predicted to grow more.

The projected employment for statisticians is the best guess created by talented economists and statisticians at the Bureau of Labor Statistics (BLS). However, as you look through several careers you'll notice that the projections are heavily influenced by past performance and may miss current trends. No one can tell the future, and as new information and better techniques are developed, actual counts and future projections may change. Here's a glimpse at the actual counts versus the projections over time.

![Graph showing actual measured employment and BLS 10-year predictions over time from 2000 to 2030.]

Sources: 2000-2016 BLS Employment Projections
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Why? How?
What if we created a tool that made it easy for normal people to inform their choices and discourse with data?
How do you move from data in silos to meaningful dataviz?
Get the data
Get the data

Become a domain expert
Get the data

Become a domain expert

Data wrangling tools and decisions across domains
Get the data

Become a domain expert

Data wrangling

How can people interact with this product to find and understand what they care about?
Get the data

Become a domain expert

Data wrangling

Finding information on ididio

Data-Driven Documents

Visualizations need to be chosen judiciously and share as much context as possible
Get the data

Become a domain expert

Data wrangling

Finding information on ididio

Curated visualizations

Our dream: our tools generalize so that people can find data, build visualizations, and write text to tell their own stories!
I would love to chat!
Elsa Schaefer
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Our Mission:
To help people better understand their world by visualizing data in context.