

What Can I Do With a Major in Mathematics?



Below is a list of job titles, employers and graduate schools that Harvey Mudd College mathematics alumni have chosen in the last five years.

Job Titles

Analyst	Data and Policy Analyst - Statistical Programmer	Native App Developer	Research Associate	Spacecraft Systems Test Engineer
Applied Scientist	Data Engineer	Program Coordinator	Schmidt Scholar	Technical Services Engineer
Associate Consultant	Machine Learning Engineer	Programmer	Senior Perception Engineer	Trade Developer
Associate product Manager Consultant	Mathematician	Quantitative Analyst	Software Developer	Trader
		Research Analyst	Software Engineer	
			Solutions Engineer	

Employers

Acumen LLC	Capital Group	Indeed Inc.	Opera Solutions	Susquehanna International Group
Affirm	Citadel	Intuit	Originate	Symbio Robotics
Airbnb	Citi	Jane Street Capital	Pacific Northwest National Laboratory	Teach for America
Allston Trading	Civis Analytics	Laserfiche	Peace Corps (Volunteer)	UberMedia
Amazon	Cruise Automation	Liferay Inc.	Pivotal	Unifyld
Apple	Databricks Inc.	LinkedIn	Plaid	Veeva Systems
Argus	Datadog	Lyft	Planetary Science Institute	VmWare
Art of Problem Solving	Deallus Consulting	Massachusetts General Hospital Institute for Technology Assessment	PredPol Inc.	Workday
Aspiration	Delphix	Meta	Project N	Yelp
Astranis	EdTech	Microsoft Corporation	Pure Storage	Zillow Group
Bain & Company	Epic	Morgan Stanley	Quantcast	Ziprecruiter
Blacktop Government Solutions	FiveStars	NASA Ames Research Center	QuanticMind	
Blend	Google	National Security Agency	Reasoning Mind	
Bowers & Wilkins	Green Hills Software	Nvidia	Remitly	
Brattle Group	Gusto	Okta	Stripe	
Broad Institute	Harvey Mudd College		Supplyframe	
Caltech	IMC Financial Markets			

Starting Salary Summary

High Salary Range \$100,000–\$150,000	Low Salary Range \$50,000–\$79,999	Median Salary Range \$95,000–\$99,999
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Graduate Schools

Brown University	Northeastern University	University of British Columbia	University of California, Santa Barbara	University of Oregon
Cambridge University	Northwestern University	University of California, Berkeley	University of California, Santa Cruz	University of Pennsylvania
Carnegie Mellon University	Oregon State University	University of California, Davis School of Veterinary Medicine	University of Chicago	University of Southern California
Claremont Graduate University	Pennsylvania State University	University of California, Irvine	University of Illinois	University of Texas at Austin
Cornell University	Princeton University	University of California, Los Angeles	University of Maryland	University of Washington
Duke University	Stanford University	University of California, San Diego	University of Massachusetts, Amherst	University of Wisconsin
Emory University	Stanford University School of Education		University of Michigan	Vanderbilt University
Harvard University	Stony Brook University		University of Minnesota	Washington State University
Massachusetts Institute of Technology	The College of William and Mary			Yale
New York University				

Summer Employers

Airbnb	Carnegie Mellon University (REU)*	City of Los Angeles	Facebook	Harvard University (REU)
Amazon	Citadel	Digipen Institute of Technology*	FirstBank*	Inrix
Antares Audio Tech*	City of Hope	DIRECTV	Google*	InstaMed
Caltech (REU)		Electronic Arts*	GreenLight Biosciences*	Intel*

Summer Employers (CONTINUED)

Intentional Software*	Northwestern University (Astrophysics research)	Pillow Global Inc.	Texas A&M University (REU)	Washington State Department of Labor and Industries*
Intuit	Northrop Grumman*	PricewaterhouseCoopers	UCLA (Applied Math REU)*	Williams College (REU)
Kent State (HMC-Macalester REU)	Opto 22	Proofpoint	United States Geological Survey*	Yelp
LA Clippers	OSIsoft	Pure Storage*	University of Montana (Cryptography REU)*	<i>*companies that hired first-year students</i>
Microsoft	Paxata	ServiceNow*	Voya Financial*	
	Payplant*	TD Securities		

Average Summer Wage

First-year \$6,283 stipend	Sophomore \$8,147 stipend	Junior \$9,448 stipend
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Here are just a few areas that may interest a mathematics major.

Area

Employers

INDUSTRY

Research and development
Design
Data processing
Testing
Operations
Quality control
Statistical processing control
Environmental analysis
Consulting

Manufacturing
Transportation
Aerospace
Communications
Machinery
Electrical equipment
Pharmaceuticals
Consulting firms

MARKET RESEARCH

Data collection
Information analysis

Market research firms
Consumer goods manufacturing firms

BANKING

Branch management
Credit lending
Operations
Systems
Trusts

Commercial banks
Regional banks
Savings and loan associations
Credit unions

What You Can Do Now

- Gain experience through volunteering, internships and part-time or summer jobs.
- Develop good oral and written communication skills.
- Supplement curriculum with courses in business, economics, computers or statistics for increased job opportunities.
- Build relationships with faculty by conducting research.
- Develop the ability to work well in teams.
- Talk to professionals in areas of interest to enhance knowledge and make contacts.
- Join related student professional associations and seek leadership positions.

What You Can Do After Graduation

- An undergraduate degree is often sufficient for entry-level positions, but an advanced degree may open the door to more upper-level opportunities. Pair a strong background in mathematics with another technical discipline such as computer science or engineering.
- A master's degree in math, business or related fields will be helpful for advanced positions or for consulting jobs.
- A PhD is needed for academic positions and certain areas of research.

