

# Biology

# Traditional Careers in Biology

OCCUPATION	JOB SUMMARY	ENTRY-LEVEL EDUCATION	MEDIAN PAY 2021
Physician	Diagnose and treat patients with injuries or illnesses.	MD (or DO)	>\$200,000
Psychiatrist/ Psychologist	Provide treatment and therapy for mental and behavioral issues	MD or Ph.D.	>\$200,000
Dentists	Diagnose and treat dental patients	DDS	\$160,000
Pharmacists	Dispense and advise on medications	PharmD	\$120,000
Industry/Biotech Scientist	Conduct research experiments aimed at improving human health	MS or Ph.D.	\$95,000
Professor	Academic research and teaching	MS or Ph.D.	\$90,000
Secondary Teachers	Teaching high school level students skills needed for college or job market	BS	\$60,000

# Non-Traditional Careers in Biology

OCCUPATION	JOB SUMMARY	ENTRY-LEVEL EDUCATION	MEDIAN PAY 2021
Veterinarian	Manage illness and injuries in animals	DVM	>\$100,000
Pharmaceutical & Biotech Sales	Support healthcare and industry clients with products and resources	BS	\$75,000
Patent Attorney	Attorney focuses on patent and IP law	JD	\$90,000
Patent Agent	Review and analysis of prospective patent applications	BS	\$65,000
Field Scientist	Setup and Maintain scientific equipment	BS	\$80,000
Biology/Science Journalism	Journalist/writer with a scientific acumen and focus	BS	\$95,000

<https://www.bls.gov/ooh/field-of-degree/biology/biology-field-of-degree.htm>

# Example Employment Outlook

Over 3,000,000 employed individuals with Biology degrees in the US.

Occupation	Employment - 2021	Projected Employment - 2031	Change, 2021-31	
			Percent	Numeric
Biomedical Scientists	119,200	140,000	+17 %	20,800
Postsecondary Instructors	60,200	67,700	+12 %	7,500
Dentists	146,200	154,600	+6 %	8,400
Secondary Teachers	1,058,300	1,107,000	+5 %	48,700
Physicians & Surgeons	761,700	783,100	+3 %	21,400
Pharmacists	323,500	331,100	+2 %	7,700

# Largest employers in Biology

OCCUPATION	% OF TOTAL
Healthcare practitioners and technical occupations	35
Management occupations	11
Life, physical, and social science occupations	11
Educational instruction and library occupations	10
Business and financial operations occupations	5
Other	28

# Why UTD for Biology?

- Large “Umbrella” Program with Diverse Research Focus:
  - Molecular and Cell Biology
  - Biochemistry and Biophysics
  - Genomics and Computational Biology
  - Pathobiology (Cancer, Neurobiology and Infectious Disease)
  - Microbiology
- > 40 Faculty Members (20 Tenure/Tenure Track)
  - Student to Faculty ratio of 24:1
- > 20 Independent Research Laboratories
  - Undergraduate Research Programs, Scholarships and Awards

# Why UTD for Undergrad?

- B.A. and B.S. Degree Plans in Biology
- Departmental Scholarship and Research Opportunities for Undergrads
- Summer Research Programs
- > 300 Student Organizations
- Student Success Programs

## Biological Sciences

► Bruce Gnade Undergraduate Student Travel Award

► Daniel L. Harris Biology Scholarship

► Dean's Fellowship (dr, us)

► EEF Scholarship (dr, us)

► Greater Texas Foundation – Alan G. MacDiarmid Removing Educational Barriers Scholarship (tx, ug, us)

► Julia Williams Van Ness Merit Scholarship

► Mei Lein Fellowship (gr)

► NSM McDermott PhD Admission Fellowship (dr)

► NSM McDermott Master's Student Fellowship (ms)

► Sungkyunkwan University (SKKU) Scholarship (ug)



<https://soc.utdallas.edu/>

<https://nsm.utdallas.edu/scholarships/>

<https://firstgen.utdallas.edu/>



# Why UTD-Biology for Pre-Med?

## Health Professions Advising Center

Join Mailing List

Gain Healthcare Experience

Pre-Health Starter Kit

Application Support

*UT Dallas is the #23 medical feeder school in America, and #3 in Texas—outranking many much larger universities!—according to the American Association of Medical Colleges.*

## UT Dallas Medical Admissions for Entry Year 2021

preparedness, compared to other UT Dallas med. applicants	% of students in that category*	placement rate in med. schools
Exceptional	20%	100%
Strong	43%	73%
Average	34%	51%
National average		36%

## HPAC Statistics (EY 2021)

Metric	Statistic
Medical and dental applicants (for 2020 entry)	724
Admissions rate for students participating in full HPAC services	68%
Admissions rate for students participating in any HPAC services	55%
Admissions rate for students participating in no HPAC services	39%



UT Dallas - Health Profession Advising Center  
800 West Campbell Rd., FO30  
Richardson, TX 75080-3021  
[prehealth@utdallas.edu](mailto:prehealth@utdallas.edu)  
phone: 972.883.6767  
fax: 972.883.6806

<https://oue.utdallas.edu/pre-health>



# Why UTD-Biology for Grad School?

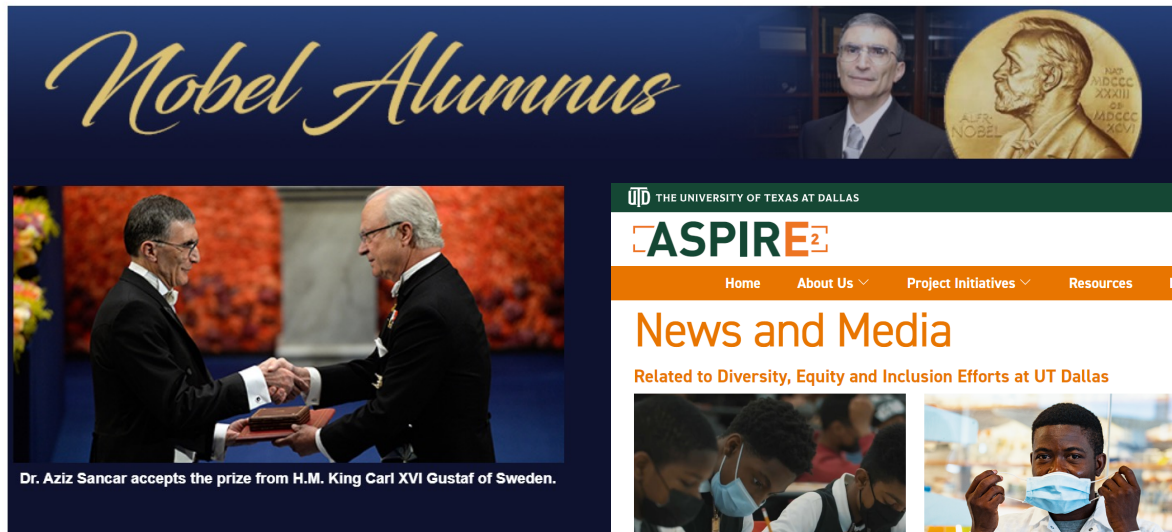
- Flexible Masters Degree Plans:  
Fast Track MS & Part-time MS Programs  
MS with & w/o Research Thesis  
Teaching Assistantships
- Ph.D. Program:  
UTD Scholarships and Supplements  
Competitive Stipends with Health Insurance  
Average Time to Degree = 5 years  
Newly Formed Graduate Student Council  
>20 Independent Research Laboratories



# Why is UTD-Biology Awesome?

- Strong History & Bright Future

*Programs designed to increase participation by underrepresented groups*



## News and Media

Related to Diversity, Equity and Inclusion Efforts at UT Dallas



Feb. 27, 2022

UT Dallas Holds Annual African American Male Bowl for Middle Schoolers  
[Spectrum News](#)



Dec. 13, 2021

UTD Joins AAAS' SEA Change Initiative to Improve Diversity, Equity  
[UT Dallas News Center](#)

*Influential & Accomplished Alumni across All Fields*



<https://lsamp.utdallas.edu/> <https://aspire2.utdallas.edu/>