

WHAT CAN I DO WITH MY MAJOR?

BIOINFORMATICS

Bioinformatics combines biology, computer science, and information technology to analyze and interpret biological data. It focuses on developing and using computational tools and techniques to understand complex biological systems and advance research in areas such as genomics, proteomics, and molecular biology

COMMON JOB TITLES * additional education or certification required post graduation

ENTRY & MID LEVEL POSITIONS

Bioinformatics Analyst
Structural Analyst
Research Scientist /Technician*
Data Analyst*
Genomics Technician
Biostatistician*

Computational Scientist
Physician*
Medical Informatics Analyst
Bioinformatics Software Developer
Statistical Geneticist*
Professor*

AREAS OF EMPLOYMENT: WHERE DO BIOINFORMATICS MAJORS TYPICALLY WORK?

Laboratories: UNMC, Boys Town

Government: National Institute for Health, CDC, FDA

Pharmaceutical Companies: Pfizer, Johnson & Johnson

Universities/Colleges: UNO, UNL, NE Wesleyan

Clinical Research Organizations (CROs): Velocity, Quality CR

Hospitals/Healthcare Companies: UNMC, CHI Health, Children's Medical Center, Methodist

Agricultural/Environmental Org.: NE Dept. of Agriculture, Environmental Protection Agency

Nonprofits: American Cancer Society, American Heart Association, Cystic Fibrosis Foundation

Software/Tech Companies: Aurora, Ocuvera, Valmont, Celerion, Proxim Diagnostics

Research Institutes: Suzanne & Walter Scott Research Institute

IMPORTANT QUALITIES:

Transferable Skills Gained:

Analytical Skills
Scientific Writing Skills
Attention to Detail
Software Development
Critical Thinking Skills

Concrete Skills Gained:

Microsoft Office
Python
R
JavaScript
Other Statistical Software/Scripting Languages

HOW TO DEVELOP YOUR SKILLS :

Attend events at the **UNMC Center for Biomedical Informatics Research and Innovation** to learn about research projects and gain new knowledge

Join a UNO Student Organization within the **College of IS&T** or **College of Arts & Sciences** to connect with other students & work on projects

Look out for opportunities within the **Bioinformatics Research Lab** to receive hands on experience and collaborate with faculty

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MAJOR + MINOR SPECIALIZATION: HOW CAN I SPECIALIZE IN SOMETHING BEFORE I GRADUATE?

*additional education or certification required post graduation

Bioinformatics + Computer Science minor = Bioinformatics Software Developer

Bioinformatics + Mathematics minor = Biostatistician*/Research Scientist*

Bioinformatics + Public Health minor = Medical Informatics Analyst

OCCUPATIONAL OUTLOOK:

Computer & Information Research Scientists

Medical Scientists

Data Scientists

Statisticians

EMPLOYMENT OPPORTUNITIES:

Check out daily job postings on **Handshake** related to accounting jobs, internships, and opportunities to boost your student experience

ADDITIONAL EDUCATION:

A **Masters degree** or **Doctoral Degree** may be beneficial or required after graduation depending on your desired career path. Advanced degrees offer opportunities for specialized study, research, and development

More information:

UNO Biomedical Informatics M.S.

UNO Biomedical Informatics P.h.D

UNO Biology Graduate Programs

OTHER RESOURCES :

UNO Biomedical Informatics & Bioinformatics : College of IS&T

UNO Bioinformatics: College of Arts & Sciences

Career Exploration in Career Services

NEED SOME EXTRA HELP?

Book an appointment with Career Services

Book an appointment with your Advisor:


College of Arts and Sciences

College of Information Science & Technology


Career Services

 EAB 113

 6001 Dodge Street, Omaha, NE 68182

 402.554.3672

 careers.unomaha.edu

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