| CAREER SERVICES

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

| CAREER SERVICES

WHAT CAN I DO WITH MY MAJOR?
BIOINFORMATICS

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

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