

Biology- Environmental Biosciences

What can I do with this major?



Related Career Titles

Search for potential careers/jobs in your field with these position titles.

- Scientific Researcher
- Analyst
- Environmental and Conservation Manager
- Ecologist
- Toxicologist
- Microbiologist
- Forensic scientist
- Scientific/Medical Laboratory Officer
- Environmental Regulator

Professional Organizations

Affiliate yourself with groups to network and learn about the field

- ✓ *American Medical Students Association, UHD group*
- ✓ *The Darwin and Leeuwenhoek Society, UHD branch of American Society for Microbiology (ASM)*
- ✓ *Health Professions Organization, UHD group*
- ✓ *Texas Association of Environmental Professionals*

Explore Career Specific Websites

www.aibs.org/careers | www.asm.org | www.aafs.org | <http://conbio.org/> | www.aamc.org | www.taep.org
| <http://www.environmentalscience.org> | www.awis.org/ | www.usajobs.gov | www.biologyjobs.com | www.nabt.org

Graduate School Considerations

*Programs not offered at UHD

| | |
|-------------------------------------|---|
| Master of Arts in Teaching | Master of Science in Evolutionary Biology* |
| Master of Science in Data Analytics | Master of Science in Bioinformatics* |
| Master of Business Administration | Master of Science in Ecology* |
| Master of Science in Microbiology* | Master of Science in Environmental Science* |
| Doctor of Medicine* | Master of Science in Genetics* |

Community Partnerships

Research local organizations offering field experiences to students pursuing a Biology with Environmental concentration.

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|----------------------------|--|------------------|---|----------------|-------------|
| Memorial Hermann | BP | Texas Children's | UT Medical Branch | RiceTec | Houston Zoo |
| Houston Methodist Hospital | City of Houston, Health & Human Services | | Houston Renewable Energy Group | | |
| MD Anderson | Baylor College of Medicine | Lockheed Martin | Mad Science of Houston | Anheuser-Busch | |
| Bayou Land Conservancy | EDP Renewables | | Harris County Institute for Forensic Sciences | | |

What is Biology with Environmental Biosciences?

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The Bachelor of Science degree in Biology with concentration in Environmental Biosciences provides a broad-based curriculum in liberal arts, the Natural Sciences and a set of courses specifically in biology with an environment focus. This concentration requires ecology, environmental biology, a plant biology or taxonomy course and additional courses that cover a broad collection of environmental topics.

Interested in discussing your career path possibilities?

Visit S-402 or
Call 713-221-8980
The [Career Development Center](#)

John C. Student

Houston, TX | 713-000-0001 | John.Student@email.com

BIOTECHNICIAN

SUMMARY

Detail-oriented lab technician with several years of experience in biological research. Exceptionally skilled in cell culturing and western blot in the areas of cancer research and genetics. Collaborated in team-oriented projects to produce statistically significant results.

LABORATORY SKILLS

Cell Counts, Eukaryotic Cell Culture, DNA Isolation, Gel Electrophoresis (SDSPAGE, Agarose), Western Blot, Flow Cytometry, Chromatography, Spectrophotometry, qPCR, Nuclear Magnetic Resonance Spectroscopy (NMR), Thermogravimetric Analysis (TGA), Differential Scanning Calorimetry (DSC), Inductively Coupled Plasma with optical emission spectrometer (ICP-OES), Urinalyses, Cytology, Blood Typing

EDUCATION

University of Houston – Downtown | Houston, TX

Bachelor of Science in Biology

December 2016

GPA: 3.26

Honors: Dean's List Fall 2016

Relevant Courses: Biochemistry, Cellular Biology, Genetics, Human Physiology, Plant Biology, Ecology, Environmental Lab & Field Studies, Microbiology, Statistical Analysis

RELEVANT RESEARCH

University of Houston-Downtown, Houston, TX

Isolation of Alkaline Phosphatase by Spectrophotometry and Chromatography 08/2014 – 12/2014

Research Team Member

- Conducted biochemical experiment to isolate proteins using spectrophotometry and chromatography then analyzed quantitative biochemical data.
- Collaborated with a team of 5 to complete necessary tasks to isolate the protein *alkaline phosphatase*.

Synthetic Compound Screening for Anti-Cancer Agent Potential

01/2015 – 05/2015

Research Team Member

- Performed various experiments using mammalian cell culture, cell proliferation assay, genomic DNA isolation, immuno-florescence, microscopy, tubulin polymerization assay, and propidium iodine staining.
- Designed experimental protocols to determine the effect of various compounds on cell proliferation and mechanism of action of various drugs.
- Collected and critically analyzed data to determine viability of anti-cancerous drugs that led to candidates further screening.

Elemental Analysis of Tuber Latent Soils in Texas

08/2016 – 12/2016

Research Assistant

- Prepared and analyzed soil composition using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).
- Statistically analyzed collected data to determine the elemental content of various soil types.