


Lydia Beaumont

Environmental Engineer

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West Lafayette, IN 

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Work Experience

HNTB Corporation - Environmental Engineer

2021 - current

West Lafayette, IN

- Performed multiple site analyses on ArcGIS, expediting the average project planning time by 4 days via up-to-date environmental impact assessments.
- **Eliminated 28% of all runoff-related issues** in urban infrastructure projects by designing robust stormwater management systems using AutoCAD.
- Worked with regulatory agencies to comply with 17 environmental regulations, ensuring the company maintained the highest compliance rate in the state for three years.
- Evaluated soil data with the help of SSSA Soil Data Mart, providing data that helped mitigate contamination levels by 21%.

Eli Lilly and Company - Environmental Consultant

2018 - 2021

West Lafayette, IN

- Developed 4 predictive models in MATLAB to forecast and report negative air quality changes from pharmaceutical emissions.
- Used EIAPro to hold Environmental Impact Assessments (EIA) for new pharmaceutical projects, speeding up the approval process by 2 days.
- Introduced the latest control systems for analyzing environmental data trends, enabling the team to **improve its pollutant tracking accuracy by 33%**.
- Communicated with cross-functional teams to enforce sustainability initiatives, lowering the company's annual carbon footprint by 16%.

Buehler's I.T. - Junior Engineer

2016 - 2018

West Lafayette, IN

- Monitored environmental data on Envirosuite to optimize 7 sample preparation procedures.
- Operated Hach HQ40d instruments for monthly calibration tasks, maintaining equipment precision with a maximum 1.8% deviation.
- Leveraged Aeroqual Series 200 for monitoring the lab's air, ensuring indoor air quality **did not drop below 6 mg/m³** of target levels.
- Conducted Hach HQ40d water quality tests, leading to a 29% reduction in contamination rates.

Education

Purdue University - Bachelor of Science, Environmental and Ecological Engineering

2012 - 2016

West Lafayette, IN

Skills

ArcGIS; HEC-RAS; AutoCAD; MATLAB; Hach HQ40d; EIAPro; Aeroqual Series 200; SSSA Soil Data Mart; SWMM; Envirosuite