

Data Science Job Guide

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General Guide

Before applying, write your resume ready as soon as possible for self assessment and acquire the skills/experiences you wish to have. Here are some general ways to find internship/full time job (sorted from most effective to least).

1. Personal connection (family member, friends, professors).
2. Career fair offered at UWL and the recruiting company.
3. Use the school recommended internship software (e.g., HandShake).
4. Standard job search through Monters.com, LinkedIn, Indeed.com, etc.

Job Titles

Here is a nice list made by Mitch Maegaard. Feel free to reach him at Mitch.Maegaard@sentry.com

Mitch: This is a short list, but hopefully it provides some direction. My biggest recommendation would be to search LinkedIn for “data” or “statistics” and explore what comes up. Don’t limit what they are searching for because skills/responsibilities cross over several role titles. Feel free to share my contact info if they are looking for some recent graduate advice. I wish them all the best!

- **Data Analyst.** Analyzing underlying data & presenting to stakeholders as useful/insightful information. Top skills: Data modeling, Data analysis (R/Python/etc.), Data visualization (Tableauggplot/etc.), Data mining, SQL, Data warehousing.
- **Data Scientist.** Think about data in context of practical business questions & translate/create algorithms for presenting insights/recommendations to stakeholders. Top skills: Statistical modeling, Machine learning, Coding, Data mining, SQL, Data cleaning, Feature engineering, Data visualization.
- **Data Engineer.** Create and maintain data pipelines for moving data from external sources to analysts, scientists, etc. Top skills: ETL/ELT, Database administration, SQL/NoSQL, Cloud knowledge (e.g., AWS), Streaming solutions (e.g., Kafka), Data processing (Python), JDBC/ODBC (Java).

- **Business Analyst.** Similar to data analyst, even more driven for developing/presenting KPI's, monitoring data systems, etc. Top skills: BI tools (Tableau/PowerBI), Python/R, Data analysis.
- **Machine learning engineer.** Similar to data science, more focused on deep learning, modeling, forecasting. Top skills: Programming (python), Deep learning, Statistics.
- **Statistical analyst.** Cross between data analyst and ML engineer, with more emphasis on statistical-driven modeling. Top skills: Statistical modeling (regression/clustering/decision trees/neural nets/etc.), Data visualization, Programming (Python/R), Data manipulation.

Company List

This is based on the experience of the applications of the former students from the center.

La Crosse Area

La Crosse Logistic Health Inc, Fastenal , Kwik Trip, Reinhart, Trane, SAP, Kaplan, Organic valley, Gunderson, Mayo, Federated insurance, American family insurance, Atos.

Regional (WI, IA, MN, IL)

Epic, Concurrency, MGIC Investment, Jockey International, Northwestern Mutual, Fiserv, Milwaukee Tool, Securian Financial, 3M, Target, IBM, Western National Insurance.

Good internship but may not be directly data science (BI, etc.)

Optum, Wells Fargo, EcoLab, Best Buy, General Mills, Star Tribune, Accenture (consulting firm).