

# Data Science Internship

## About us

The Reporting and Analytics (R&A) teams at the University empower data-driven decisions by providing easy access to institutional information. We utilize various approaches such as traditional reports, data cubes, AI-driven features, and predictive analytics. In addition, we build and maintain custom applications to empower end-users to effortlessly access, explore, and interact with our data products.

R&A is seeking data science interns to conduct data cleaning/preprocessing, perform exploration and analysis, create data visualizations, and to develop new predictive models or enhance existing models. This is an exciting opportunity to gain hands-on experience in the field of data science while contributing to a dynamic and innovative team.

R&A works closely with the campus community on emerging predictive analytics initiatives, and pioneers tools that present data to inform and support academic planning, advising, and teaching and learning practices. R&A supports data-driven decisions and organizational strategy with meaningful analytics and contemporary statistical approaches designed to improve our services to the UW. We communicate findings to multiple audiences to support strategic decision-making, the use of best practices, and the development and adoption of appropriate, effective technology.

R&A is a highly supportive environment for thoughtful inquiry, which values:

- Data-driven decision-making
- Cross-functional and multi-disciplinary teams
- User-centered design and development
- Agile and iterative development methods
- Innovative thinking

At UW, diversity is integral to excellence. We value and honor diverse experiences and perspectives, strive to create welcoming and respectful learning environments, and promote access, opportunity and justice for all.

## About You

By applying for this position, you are telling us that you:

- Enjoy drawing meaningful conclusions from data

- Believe in clear communication as the foundation to any relationship
- Have a genuine curiosity about the student experience
- Like to have fun at work
- Hunger for learning new data science concepts

## Job Description

R&A seeks aspiring data scientists who will help us discover patterns hidden in vast amounts of data, and help deliver analytical tools for students, faculty, and staff. Your primary focus will be in applying data mining techniques, conducting statistical analyses, and building machine learning models to be integrated with our existing and future products. Our data science powers [DawgPath](#) and other analytics applications at UW.

## Position Responsibilities

- Contribute to the development of learning analytics that aim to understand student engagement and support student success and retention
- Analyze data, develop findings, and communicate findings
- Develop innovative and meaningful visualizations of data
- Identify trends, and support strategic, data-driven decision-making

## Minimum Qualifications

- Enrollment as an undergraduate or graduate student at UW, Seattle
- Ability to query structured databases, e.g. SQL, using appropriate tools
- Analyzing quantitative data and a good knowledge of statistics
- Data analysis planning, demonstrated skill in making sense of data, and familiarity with data analysis tools and software like R and/or Python
- Data visualization, and facility with visualization tools, e.g. GGplot, matplotlib

## Desirable Skills

- The ability to prototype solutions using your preferred tools
- Selecting and engineering features in order to optimize machine learning techniques
- Interpreting and explaining machine learning models for audiences with varying levels of technical knowledge
- Doing ad-hoc analysis and reporting results
- Familiarity with version control, e.g. Github
- Ability to engage with hybrid work environment

## Learning Competencies

- Working effectively on cross-functional teams
- Resourcefulness and the ability to synthesize information
- Time management and the ability to plan, organize, and prioritize work
- Building and fostering collaborative relationships in a diverse workplace

## Job Hours and Pay Rate

15-20 hours a week for 11 weeks at \$19.97 per hour. Operating hours are Monday-Friday from 9am-5pm. We are flexible during finals week. Schedules are based upon workload, the applicant's class schedule and other academic responsibilities. Ideal candidates can give at least one academic year commitment. During academic breaks, hours can increase up to 40 hours a week.

Apply [here](#). **Please use your @uw.edu email when filling out the form.** We will not review applications submitted to Handshake.