

TEACHING OPPORTUNITIES

CERTIFICATE IN DATA SCIENCE



The University of Washington is proud to be one of the nation's premier educational and research institutions. UW Professional & Continuing Education, delivered by Continuum College (UWC²), offers certificate programs and degrees to working professionals in the evenings, weekends and online.

We pride ourselves on providing high-quality and up-to-date learning experiences. We are able to do this by working with industry professionals who want to share their knowledge with students and grow professionally through teaching.

OFFERED IN TWO FORMATS

- **Online, self-paced** – Students start anytime and move at their own pace with up to 4 months to complete each course. There are no class meetings or fixed deadlines.
- **Classroom** – Students attend class in downtown Seattle or Bellevue one night a week.

INSTRUCTIONAL AND CURRICULUM DEVELOPMENT ROLES

There are three types of roles. All roles are part-time and designed to accommodate professionals who work during business hours.

- **Course Developer** – Share your expertise by developing videos, assignments, labs and assessments.
- **Course Instructor** – Share and grow your skills by teaching a set curriculum in one of the two formats above.
- **Instructional Assistant** – Develop your knowledge and experience by serving as an instructional assistant to coach and teach students online or in the classroom.

SKILLS AND EXPERIENCE

Required

- To be an instructor/developer: At least three years of professional experience as a Data Scientist
- To be an assistant: At least 1 year professional experience as a Data Scientist
- Excellent interpersonal, oral, and written communication skills
- Willingness to collaborate and coordinate with instructional team

- Commitment to supporting students in achieving learning outcomes
- Desire to contribute to on-going program development
- Legal authorization to work and receive compensation in the United States

Desired

- Undergraduate or graduate degree in relevant field
- Teaching experience

COURSE TOPICS INCLUDE

Course 1: Data Science: Process and Tools	Course 2: Methods for Data Analysis	Course 3: Machine Learning Techniques
<ul style="list-style-type: none"> • Intro to data science • Nature of data • Data flow diagrams • Aberrant data • Numeric data • Categorical data • Data structures • Data preparation • K-means • Predictive analytics • Accuracy measures • Simple statistics • Data model 	<ul style="list-style-type: none"> • Data exploration • Combinatorics • Hypothesis testing • Bayesian statistics • Regression • Regularization • Time series analysis • Naïve Bayes 	<ul style="list-style-type: none"> • Machine learning and data science process • Pitfalls of ML • Feature engineering • Feature selection • Decision trees • Ensemble models • Support vector machines • Neural networks • Deep learning

APPLY TO TEACH

We interview prospective instructors on an on-going basis. Interested applicants should send a resume or LinkedIn profile and letter of interest describing relevant experience, teaching philosophy, preferred course and role to the Program Manager, Ashley Kim, aekim@uw.edu.



The University of Washington is a leader in [environmental stewardship & sustainability](#), and committed to becoming climate neutral.

[The University of Washington is an equal opportunity, affirmative action employer.](#) To request disability accommodation in the application process, contact the Disability Services Office at 206-543-6450 / 206-543-6452 (tty) or dso@uw.edu.