

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.

UWC² has a range of outstanding opportunities for instruction and curriculum development in the:

CERTIFICATE DATA SCIENCE

This certificate program is designed for technical professionals with data and programming experience who want to learn how to apply advanced machine learning and predictive analytics techniques.

In this program, students will discover how to apply cutting-edge tools and processes to extract meaning from data sets. They will use statistics, machine learning and algorithms, and other techniques to analyze real-life data scenarios and help make informed business decisions.

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 available. All roles are part-time and designed to accommodate professionals who work during business hours. Please see tables below for specific openings.

- **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.

COURSE TOPICS AND JOB OPENINGS

Course 1: Data Science: Process and Tools

Topics	Current Job Openings
<ul style="list-style-type: none">• Intro to data science	Instructor/Instructional Assistant

<ul style="list-style-type: none"> • 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 	<p>Classroom January – March 2020</p> <p>Classroom April – June 2020</p> <p>Classroom October – December 2020</p>
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Course 2: Methods for Data Analysis

Topics	Current Job Openings
<ul style="list-style-type: none"> • Data exploration • Combinatorics • Hypothesis testing • Bayesian statistics • Regression • Regularization • Time series analysis • Naïve Bayes • Basic text analysis 	<p>Instructor / Instructional Assistant Classroom April – June 2020</p> <p>Classroom October – December 2020</p>

Course 3: Machine Learning Techniques

Topics	Current Job Openings
<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 	<p>Instructor / Instructional Assistant Classroom April – June 2020</p> <p>Classroom June – August 2020</p> <p>Classroom October – December 2020</p>

SKILLS AND EXPERIENCE

Required

- To be an instructor: At least three years of professional experience as a Data Scientist.
- To be an assistant: At least 1 year experience in Python programming, recent coursework in statistics and linear algebra, proficiency in SQL
- Excellent interpersonal, oral, and written communication skills
- Legal authorization to work and receive compensation in the United States

Desired

- Undergraduate or graduate degree in relevant field
- Teaching experience

APPLY TO TEACH

Interested applicants should send a resume or LinkedIn profile and letter of interest describing relevant experience, 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.