

## TEACHING OPPORTUNITIES

### CERTIFICATE IN BIG DATA TECHNOLOGIES



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 (UWC<sup>2</sup>), 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

- **Real-time Online** – Students attend class using the Zoom platform one night a week.
- **Classroom** – Students attend class in downtown Seattle or Bellevue one night a week.

### INSTRUCTIONAL ROLES

There are two types of roles. All roles are part-time and designed to accommodate professionals who work during business hours. While there's usually a greater time commitment for first-time instructors, the average for all instructors tends to be about 10 hours/week.

- **Instructor** – Share and grow your skills by delivering engaging class sessions
- **Instructional Assistant** – Develop your knowledge and experience by serving as an instructional assistant to coach and teach students through providing high-quality feedback on assignments.

### SKILLS AND EXPERIENCE

#### Required

- To be an instructor: At least three years of professional experience as a Data Engineer or similar
- To be an assistant: At least 1 year professional experience as a Data Engineer or similar
- 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: Introduction to Data Engineering	Course 2: Building the Data Pipeline	Course 3: Emerging Technologies in Big Data
<ul style="list-style-type: none"> <li>• Intro to big data and cloud computing</li> <li>• The Hadoop ecosystem</li> <li>• Data processing using Spark</li> <li>• NoSQL databases</li> <li>• Cassandra; NoSQL data modeling strategies</li> </ul>	<ul style="list-style-type: none"> <li>• Recap of big data fundamentals</li> <li>• Building analytics pipelines</li> <li>• Integrating with legacy data sources and the modern data warehouse</li> <li>• Elastic and introduction to streaming</li> <li>• Unified log model and Kafka</li> <li>• Processing streaming data</li> <li>• Dataflow and scaling</li> <li>• Production considerations for data pipelines</li> </ul>	<ul style="list-style-type: none"> <li>• Continuously developing topics in this course</li> </ul>

**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, [akim@uw.edu](mailto:akim@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](mailto:dso@uw.edu).