Bentley’s Master of Science in Digital Innovation (MSDI) prepares you for the new era of automation. Our combination of technical knowledge, analytical skills, business acumen, and communication skills gives you the tools you need to become a digital innovator with the expertise to shape, build, and lead the ongoing automation revolution.

Rather than focusing on only technology development, the Bentley MSDI brings business and technology together in ways that create distinctive value.

Program Features
- Designed to hone your expertise in such areas as digital strategy, artificial intelligence, application development and data architecture, providing immediate value to your organization and transforming your career.
- Provides a wide range of industry-tested skills and knowledge in analytics and problem solving, data management, globalization and communication.
- Learn advanced technologies (AI, cloud computing, cybersecurity, and Agile methods) and programming languages (Python, Java, SQL/No-SQL), and gain hands-on experience with integrating those technologies into organizational systems to enable innovative business practices.
- STEM designation, including employability of international students due to three years of OPT (optional practical training).

Experiential Learning
The CIS Sandbox, Bentley’s technology social learning space, offers informal learning and networking opportunities for MSDI students. Here, you’ll learn to use cutting-edge tools and technologies across analytics and IT platforms and applications, including Python, Java, cloud-based software, mobile application development, artificial intelligence applications, SQL and source control.

Career Outcomes
This program will prepare you for success in a host of cutting-edge careers:
- Business analyst and consultant
- Business intelligence analyst
- Security consultant
- CIO/CTO
- Enterprise architect
- IT audit
- Software engineer
- Data engineer
"You need to be educated in technology to be effective in whatever field you pursue."

Paul Brassil
Vice President
Information Technology at the Federal Reserve Bank of Boston

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**Curriculum**

**Foundation (1 course)**

*All applicants will be evaluated for foundation waivers.*

- **GR 521** Managerial Statistics

**Core (7 courses)**

- **Analytics Core**
  - **CS 605** Data Management and SQL for Analytics
  - **IPM 652** Managing with Analytics
  - **ST 625** Quantitative Analysis for Business

- **Digital Innovation Core**
  - **CS 602** Data-Driven Development with Python
  - **CS 607** Cybersecurity
  - **CS 610** Enterprise Architecture
  - **CS 620** Software Project Management

**Electives (4 courses)**

- **Sample of elective courses:**
  - **CS 603** Algorithmic Thinking with Java
  - **CS 612** Cloud-Based Enterprise Applications
  - **CS 650** Data Analytics Architectures with Big Data
  - **CS 680** Mobile Application Development
  - **CS 703** Looking into the Future: Automation and Digital Technologies
  - **CS 733** Artificial Intelligence Techniques and Applications
  - **CS 753** Business Intelligence Methods and Technologies
  - **CS 795** Special Topics Seminar
  - **CS 881** MSDI Internship

For complete degree requirements and most up-to-date course options, visit [bentley.edu/graduate](http://bentley.edu/graduate).

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**bentley.edu/graduate/digital-innovation**

Office of Graduate Admission  |  applygrad@bentley.edu  |  781-891-2108

BENTLEY UNIVERSITY is one of the nation’s leading business schools, dedicated to preparing a new kind of business leader — one with the deep technical skills, broad global perspective, and high ethical standards required to make a difference in an ever-changing world. Located minutes from Boston, Bentley enrolls approximately 4,100 full-time undergraduate, 140 adult part-time undergraduate, 1,430 graduate, and 34 doctoral students.