Senior AI Learning Engineer

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Job Description
Embry-Riddle: A Global Leader in Aviation and Aerospace

With vibrant campuses in Daytona Beach, FL, and Prescott, AZ-along with a Worldwide network spanning roughly 120 global locations-Embry-Riddle proudly stands as the world's largest aviation and aerospace university. Now celebrating our 100th year, we continue to lead innovation in STEM education, serving more than 30,000 students worldwide. Our cutting-edge programs in Applied Science, Aviation, Business, Technology, Engineering, Safety, Security, and Space prepare the next generation of leaders shaping the future of flight and beyond.

The Opportunity

The Senior AI Learning Engineer designs, builds, and maintains AI-enabled learning assets that enhance course delivery and instructional experiences at Embry-Riddle Aeronautical University (ERAU). This role focuses on applied research, prototyping, and development of course-ready tools such as chatbots, simulations, assessments, and other digital learning objects in collaboration with instructional designers and subject-matter experts.

This position requires strong technical and instructional design fluency, including the ability to evaluate emerging AI capabilities, translate instructional needs into functional prototypes, and produce reliable, reusable assets that can be implemented in courses and iterated over time.

Essential Job Functions
AI Research, Prototyping & Development

- Conduct applied research on generative AI, machine learning, and related techniques to identify opportunities for asset-development and instructional applications.
- Design, develop, and implement AI-powered assets, prompt-and-tool workflows, and supporting components for learning experiences.
- Build and test prototypes (e.g., chatbots, simulations, decision-support tools) and iterate toward production-ready assets.
- Optimize existing AI assets for performance, scalability, reliability, and responsible use.
- Create and maintain technical documentation (requirements, configurations, prompts, testing notes, and handoff materials) to support maintenance and reuse.

- Contribute to development standards and best practices for AI-enabled assets (quality, safety, accessibility, and evaluation).

Course Asset Development & Instructional Design Collaboration

- Collaborate with instructional designers and subject-matter experts to translate learning objectives into AI-enabled assignments, activities, and course assets.
- Develop AI-enhanced learning objects including chatbots, simulations, assessments, interactive case activities, and supporting instructional materials.
- Integrate assets into course builds and redesigns (e.g., Canvas) with attention to accessibility, usability, and ERAU quality standards.
- Maintain and version reusable asset templates and components to support consistent implementation across courses and programs.

Project Management & Delivery

- Plan and deliver AI-asset development work using clear requirements, milestones, testing plans, and release criteria.
- Coordinate with internal partners to schedule reviews, track dependencies, and ensure timely delivery of course-ready assets.

Assessment & Continuous Improvement

- Evaluate the impact of AI integration in ERAU courses using user feedback, learning analytics (when available), and structured testing to identify improvement opportunities.
- Iterate and maintain assets based on evaluation findings, issue reports, and evolving course needs.
- Contribute to scholarship or internal research related to AI-enabled learning assets, instructional design, and learning sciences.

Perks Await You at Embry-Riddle!

- **Health Benefits:** Experience comprehensive medical, dental, and vision coverage, along with wellness programs that include preventive care and fitness memberships. Our flexible spending and health savings accounts simplify managing healthcare costs. Join a workplace that prioritizes your health-because your journey to wellness should be rewarding! Buckle up for a healthier, happier you!

- **Tuition Coverage:** Get 100% tuition coverage for yourself for one undergraduate and one graduate degree, and discounted rates for your spouse and dependent children up to age 26.
- **Retirement Contributions:** ERAU contributes an annual 6% gift of your base salary to your retirement plan and offers a 4% matching contribution, with no vesting period.
- **Generous Time Off:** *Generous Time Off: Relax with 18 days of personal leave in your first year. Enjoy 9+ paid holidays, including the day after Thanksgiving and the week between Christmas Eve and New Year's Day.*

Qualifications
Required Education and Qualifications:

Education

Bachelor's degree in Instructional Design, Computer Science, Artificial Intelligence, Machine Learning, or related fields.

Experience

- 3-5 years of work-related experience.
- Experience working in a higher education environment.
- Background in computer science, technical expertise, or knowledge of coding.
- Experience with generative AI, large language models (LLMs), prompt engineering, and AI ethics.

Skills, Knowledge, and Abilities

- Demonstrated experience applying AI tools and techniques in instructional contexts.
- Proven ability to lead projects and coordinate across multiple teams.
- Ability to collaborate effectively with instructional designers and subject-matter experts.
- Familiarity with learning management systems (e.g., Canvas), authoring tools, and learning analytics.

Application process/requirements

To submit your application for this opportunity, please visit the Embry-Riddle Career Site and search for requisition number **R311015**. Please attach all relevant materials to your application when you apply online. Complete submissions include:

- Cover letter
- Full Resume
- Contact information for at least three professional references (please note that references may be contacted as part of the interview/screening process)

Current Embry-Riddle employees: Please apply directly through the ERAU Employee Hub Central application within Workday.

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