# Assistant Professor (TT) - Artificial Intelligence in Civil and Environmental Engineering Infrastructure
# University of Massachusetts, Amherst

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| **Job Title** | Assistant Professor (TT) - Artificial Intelligence in Civil and Environmental Engineering Infrastructure |
| **Department** | Civil and Environmental Engineering |
| | https://www.umass.edu/engineering |
| **Institution** | University of Massachusetts, Amherst |
| | Amherst, Massachusetts |
| **Date Posted** | Oct. 3, 2025 |
| **Application Deadline** | Open until filled |
| **Position Start Date** | September 2026 |
| **Job Categories** | Assistant Professor |
| **Academic Field(s)** | Ecological and Environmental |
| | Civil Engineering |
| **Apply Online Here** | https://careers.umass.edu/amherst/en-us/job/528548/assistant-professor-tt-artificial-intelligence-in-civil-and-environmental-engineering-infrastructure |
| **Apply By Email** | |

## Job Description

The flagship of the Commonwealth, the University of Massachusetts Amherst is a nationally ranked public land-grant research university that seeks to expand educational access, fuel innovation and creativity, and share and use its knowledge for the common good. Founded in 1863, UMass Amherst sits on nearly 1,450-acres in scenic Western Massachusetts and boasts state-of-the-art facilities for teaching, research, scholarship, and creative activity. The institution advances a diverse, equitable, and inclusive community where everyone feels connected and valued—and thrives, and offers a full

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range of undergraduate, graduate and professional degrees across 10 schools and colleges, and 100 undergraduate majors. We believe every member of our university community can contribute to our ongoing success by striving for the highest level of excellence as we seek breakthrough solutions to mounting environmental, social, economic, and technological challenges in our world.

UMass Amherst is a leader in providing institutional supports for faculty to combine work and family/personal responsibilities, and has been listed among the Chronicle of Higher Education's "Great Colleges to Work For," UMass is in the top 10% of public research-intensive universities in the COACHE survey for making having and raising children compatible with the tenure-track. UMass Amherst maintains a nationally recognized ADVANCE Institutional Transformation program that seeks to increase equity in STEM fields through collaboration (https://www.umass.edu/advance/home).  For more information on work-life balance at UMass Amherst, see https://www.umass.edu/prospective-faculty/work/balance

The Daniel J. Riccio Jr. College of Engineering is recognized as one of the top 30 public engineering schools in the country by U.S. News & World Report and is the #1 public engineering program in New England. Our inclusive community includes ~2600 undergraduate, ~750 graduate students and ~150 instructional faculty across five engineering departments—biomedical, chemical, civil and environmental, electrical and computer, and mechanical and industrial. Our faculty members are developing life-saving medical devices and therapeutics, designing smart infrastructures, tackling climate change, and revolutionizing materials science, computing, and cybersecurity. They are recipients of prestigious national awards, including 18 CAREER Awards in the last six years. With over $60 million in research expenditures and 20+ affiliated research centers and programs, we're at the forefront of innovation and discovery. The college's new Sustainable Engineering Laboratories building, slated to open in Fall 2026, will offer immersive labs and learning spaces, enabling us to test and develop technologies that address real-world sustainability challenges. Learn more at https://www.umass.edu/engineering/ and https://engineering.umass.edu/sustainable-engineering-laboratories.

For more on the Riccio College of Engineering and our mission: ( https://www.umass.edu/engineering/about/mission-vision-and-inclusivity-statement). The College strives to be a leader in transformative engineering education, supporting faculty in the development of their teaching expertise through various initiatives such as our membership in the Kern Entrepreneurial Engineering Network (KEEN).

## Job Description

The Department of Civil and Environmental Engineering at the University of Massachusetts Amherst

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invites applications for a tenure-track (TT) faculty position at the assistant professor level in the area of artificial intelligence (AI) in civil and environmental engineering infrastructure systems. This position is part of a broader expansion in AI engineering in the College. The appointment is expected to begin September 1, 2026. Positive consideration will be given to applicants whose research, teaching, or service supports the university's commitment to public impact, inclusive innovation, and social responsibility.

The position is defined broadly across AI in civil and environmental infrastructure systems, which include the areas of structural, transportation, geotechnical, and environmental engineering. We are committed to expanding the scope of our department; scholars working across disciplines are encouraged to apply, so long as they are dedicated to addressing challenges in the built or natural environment.

The candidate is expected to teach existing graduate and undergraduate courses in civil and environmental engineering and will be encouraged to develop creative new curricula in areas of their interest or across disciplines.

As a campus, college, and department with an increasingly diverse student body, we are looking for candidates who can operate effectively in a diverse faculty and student community, and who value collegiality, collaboration, achievement, and integrity.

The Department of Civil and Environmental Engineering has 27 full-time, tenure track faculty members and approximately 100 graduate students and 400 undergraduates. The department's FY 25 research expenditures exceeded $17 million. Additional information about the Department can be obtained at cee.umass.edu.

## Requirements

Applicants must have a Ph.D. in Civil and Environmental Engineering or a closely related field or anticipate such a degree by September 1, 2026. Applicants must also demonstrate potential for scholarly excellence and developing an externally-funded research program, and the successful candidate will be expected to maintain an internationally recognized scholarly presence. Candidates will also be expected to teach existing undergraduate and graduate courses in our curriculum in civil and environmental engineering in addition to developing courses in their area of expertise. Salary will be commensurate with qualifications and experience.

## Salary Range:

Salary (Academic year - 9 month) will be commensurate with qualifications and experience. It is

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expected that the salary range for this position is between $79,350 and $124,722.

Please note:

- The low-end of the pay range in all faculty searches at the University of Massachusetts Amherst is the minimum academic year salary for the rank included in the collective bargaining agreement between the University and the Massachusetts Society of Professors, UMass Amherst/MTA/NEA. Engineering TT starting salaries are typically well above this minimum.
- The high-end of the pay range encompasses all faculty in this discipline at this rank which includes faculty with multiple years of faculty experience.
- The specific pay for this position will be determined by the University based on consideration of all relevant factors when and if it decides to extend an offer of employment.

## Application Instructions

Candidates must provide the following in their application package addressed to "AI in Civil Environmental Infrastructure Search Committee." Applications will be reviewed starting on December 1st, 2025 and reviewed until the search is completed. All files must be provided in .pdf format.

1. A cover letter, addressed to "AI in Civil and Environmental Infrastructure Search Committee". The cover letter should a) introduce yourself, b) briefly describe your research interests, and c) describe your vision for this position. **Page limit: 1 page**
2. A research statement. Candidates should situate their past research in a broader scholarly context and give their research vision for this position. Candidates are specifically asked to mention the types of scholarship they will perform, how that scholarship will be disseminated, expectations for how that scholarship will be funded, and potential collaborations. Statements will be evaluated based on assessment of demonstrated excellence or demonstrated promise of future excellence. **Page limit: 2 pages**
3. A teaching statement. Candidates should describe their past teaching experience and express their teaching vision for this position. Candidates are specifically asked to mention existing courses in Civil and Environmental Engineering they are qualified to teach and also mention courses they are interested in developing. Please discuss any plans for including project-based learning, community engagement; and/or making engineering engaging to all students. Candidates should address both undergraduate and graduate classes. Statements will be evaluated based on assessment of demonstrated excellence or demonstrated promise of future excellence. **Page limit: 1 page**
4. An outreach statement responding to the following prompt: Describe how your work, lived experience, and/or future work aligns (or will align) with the university's values and goals as

## Assistant Professor (TT) - Artificial Intelligence in Civil and Environmental Engineering Infrastructure
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outlined in the UMass Amherst Strategic Plan -- For the Common Good. If possible, the candidate should describe any connections to community engagement, broadening participation in STEM, or grand challenges in engineering. **Page Limit: 1 page**

5. A current curriculum vitae. The CV should include: 1) education, 2) employment, 3) awards and honors, 4) sponsored research (if any), 5) peer reviewed publications, 6) service, and 7) other sections as considered appropriate by the candidate.

6. Contact information, (name, title, email address, institution) for 3 professional references. References will not be contacted until the second phase of the search.

## Process

The steps of the process are as follows:

- A minimally qualified pool is identified from the applicants, ideally by the middle of January 2026.
- All remaining candidates are evaluated and a "long list" is identified, which will be interviewed via video conference. Candidates invited to these interviews will be emailed at least one week before the scheduled date.
  - For candidates advancing to the long list: references will be contacted, and candidates will have an opportunity to submit 1or 2 representative scholarly works.
- A "shortlist" is developed from the long list, and these candidates will be invited to interview on campus. While we anticipate interviews on campus in February and March.

*The University of Massachusetts Amherst welcomes all qualified applicants and complies with all state and federal anti-discrimination laws.*

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

### Contact

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