Research Programmer/Analyst - LTI - School of Computer Science

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Type: Full-Time
Posted: Today
Category: Software Engineer/Programmer
Military

Carnegie Mellon University is a private, global research university that stands among the world's most renowned education institutions. With ground-breaking brain science, path-breaking performances, creative start-ups, big data, big ambitions, hands-on learning, and a whole lot of robots, CMU doesn't imagine the future, we invent it. If you're passionate about joining a community that challenges the curious to deliver work that matters, your journey starts here!

The Language Technologies Institute (LTI) at CMU is a world-renowned research and education hub at the forefront of natural language processing, machine learning, artificial intelligence, and human-computer interaction. Established within the School of Computer Science, LTI pioneers innovative ways to understanding, processing, and generating human language in both written and spoken forms.

We are seeking a Research Programmer/Analyst. The position contributes to the development of large-scale speech foundation models by designing, training, and evaluating advanced neural architectures for speech and audio processing. This role requires significant technical expertise, independent judgment, and creativity.

Core Responsibilities:

- Collecting and curating speech dataset
- Implementing and optimizing model training pipelines
- Analyzing model behavior
- Producing high-quality research outputs
- Provides senior leadership with accurate, timely insights to guide research strategy and future development.

Flexibility and cultural sensitivity are valued proficiencies at CMU. Therefore, we are in search of a team member who can optimally get along with a varied population of diverse audiences. We are looking for someone who shares our values and who will support the mission of the university through their work.

Qualifications:

- Graduate level degree in Computer Science or a related field
- Experience with speech processing technologies
- Demonstrated research experience in speech processing, including publications in top-tier speech and audio conferences
- Experience in open-source development
- A combination of education and substantial experience from which comparable knowledge is proven may be considered.

Requirements:

Successful background check investigation may be required

Joining the CMU team opens the door to an array of exceptional benefits.

Benefits eligible employees enjoy a wide array of benefits including comprehensive medical, prescription, dental, and vision insurance as well as a generous retirement savings program with employer contributions. Unlock your potential with tuition benefits, take well-deserved breaks with ample paid time off and observed holidays, and rest easy with life and accidental death and disability insurance.

Additional perks include a free Pittsburgh Regional Transit bus pass, access to our Family Concierge Team to help navigate childcare needs, fitness center access, and much more!

For a comprehensive overview of the benefits available, explore our Benefits page.

At Carnegie Mellon, we value the whole package when extending offers of employment. Beyond credentials, we evaluate the role and responsibilities, your valuable work experience, and the knowledge gained through education and training. We appreciate your unique skills and the perspective you bring. Your journey with us is about more than just a job; it's about finding the perfect fit for your professional growth and personal aspirations.

Are you interested in an exciting opportunity with an exceptional organization?! Apply today!

Location

Pittsburgh, PA

Job Function

Software/Applications Development/Engineering
Position Type

Staff - Fixed Term (Fixed Term)
Full Time/Part time

Full time
Pay Basis

Salary
More Information:

- Please visit **"Why Carnegie Mellon"** to learn more about becoming part of an institution inspiring innovations that change the world.
- Click here to view a listing of employee benefits
- **Carnegie Mellon University is an Equal Opportunity Employer/Disability/Veteran**.
- **Statement of Assurance**

Carnegie Mellon University does not discriminate and Carnegie Mellon University is required not to discriminate in admission, employment, or administration of its programs or activities on the basis of race, color, national origin, sex or handicap in violation of Title VI of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973 or other federal, state, or local laws or executive orders.

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