

## Temporary Collaborative UI Engineer Worcester Polytechnic Institute

Direct Link: <https://www.AcademicKeys.com/r?job=258839>

Downloaded On: Jun. 30, 2025 11:12pm

Posted Jun. 30, 2025, set to expire Jul. 3, 2025

**Job Title** Temporary Collaborative UI Engineer  
**Department** The Business School - JM  
**Institution** Worcester Polytechnic Institute  
Worcester, Massachusetts

**Date Posted** Jun. 30, 2025

**Application Deadline** Open until filled  
**Position Start Date** Available immediately

**Job Categories** Part-Time/Temporary Staff

**Academic Field(s)** Research/Technical/Laboratory

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**Job Description**

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### **JOB TITLE**

Temporary Collaborative UI Engineer

### **LOCATION**

Worcester

### **DEPARTMENT NAME**

The Business School - JM

### **DIVISION NAME**

Worcester Polytechnic Institute - WPI

### **JOB DESCRIPTION SUMMARY**

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The position will support integration of generative AI insights into an intuitive, interactive web-based user interface. The role will enable real-time, collaborative functionality that connects user input with AI-generated content, a core component of the project's broader impact and usability goals.

### **JOB DESCRIPTION**

#### **MAIN RESPONSIBILITIES**

- Design and implement real-time, multi-user web interface for collaborative interaction
- Integrate dynamic AI-generated content into the user interface using REST APIs
- Build interactive visual components (e.g., pill-shaped tags) that are responsive to user input and AI suggestions
- Ensure seamless communication between frontend and backend systems, with attention to responsiveness and usability
- Use canvas or SVG rendering libraries to support drag, drop, and annotation features in a shared visual space
- Develop client-side logic for tracking user interactions and syncing shared state across sessions
- Collaborate with generative AI team to refine how model outputs are realized and experienced by end users

#### **SKILLS**

- Proficiency in TypeScript and JavaScript
- Experience with React.js, Vue.js, or other modern front-end frameworks
- Familiarity with WebSockets, Socket.IO, or other real-time interaction tools
- Knowledge of Canvas, SVG, or libraries like Fabric.js or Konva.js for interactive rendering
- Comfort styling interfaces using Tailwind CSS or other responsive UI frameworks
- Ability to consume and integrate REST APIs or GraphQL endpoints
- Basic understanding of user experience design and interaction patterns in collaborative tools

#### **EXPERIENCE**

- At least one, ideally multiple, projects involving real-time or collaborative web interfaces
- Prior work integrating backend or AI-generated content into front-end experiences

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- Experience building interactive visual elements or custom UI components from scratch
- Familiarity with version control (e.g., Git) and remote, asynchronous collaboration workflows

### DESIRABLE CHARACTERISTICS

- Strong communication skills and comfort working in a fully remote team
- Self-driven and proactive, able to work independently and manage time effectively
- Open to collaboration with and feedback from researchers, designers, and AI engineers
- Detail-oriented with a focus on delivering high-quality user experiences
- Creative thinker who enjoys experimenting with new forms of interaction and interface design

### FLSA STATUS

United States of America (Non-Exempt)

**WPI is an Equal Opportunity Employer. All qualified candidates will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, national origin, veteran status, or disability. It seeks individuals from all backgrounds and experiences who will contribute to a culture of creativity, collaboration, inclusion, problem solving, innovation, high performance, and change making. It is committed to maintaining a campus environment free of harassment and discrimination.**

**To apply, visit:** [https://wpi.wd5.myworkdayjobs.com/en-US/WPI\\_External\\_Career\\_Site/job/Worcester/Temporary-Collaborative-UI-Engineer\\_R0003210](https://wpi.wd5.myworkdayjobs.com/en-US/WPI_External_Career_Site/job/Worcester/Temporary-Collaborative-UI-Engineer_R0003210)

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departmental and institutional goals. WPI thrives on innovative practice and welcomes diverse perspectives, insight, and people from diverse lived experiences, to enhance the community environment and propel the institution to the next level in a competitive, global marketplace.

### **Contact Information**

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

### **Contact**

N/A

Worcester Polytechnic Institute

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