A Community Integration Platform for Health Science Education of Social Emotional Intelligence (SEI) through Collaborative Mixed Reality (MR)

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Community-Identified Problem

- RISD graduates enter the Richardson community workforce with solid technical skills, but lacking in Social Emotional Intelligence (SEI). SEI is a major reason young adults leave the workplace.

- We posit that MR and biometric-driven, community-based education focused on Work-Based Learning (WBL) will address this challenge.

Intellectual Merit

To our knowledge, this is the first research to provide community-based education for WBL through a biometric MR platform.

The potential for MR to provide effective SEI education through WBL is under-researched.

The platform will integrate virtual and real-life clinical rotations. Biometrics will be captured to gauge emotional engagement for all stakeholders including students, faculty, and hospital staff. Emotion-based data capture is a key integration pillar.

First research to provide a rigorous, mixed methods, longitudinal approach to WBL through MR and allow the study of SEI progression for high-school career academy students.

New community integration measurements may emerge.

Current PG Activities

- Planning Grant Team Meetings Conducted
- Two Focus Groups with RISD Students
- One Focus Group with RISD Faculty
- Interview with MRMC Faculty Member
- Interview with RISD Councilor
- Development and Submission of an SCC IRG Proposal

Upcoming PG Activities

- Refining Research Approach
- Planning Qualitative Research with Younger High School Students
- Exploring Elementary School Student Research
- Exploring Mapping of SEI Indicators to Biometric Research

Broader Impact

- Students better prepared for post-graduation sustained work/advanced education.

- Healthcare employers can hire skilled employees and reduce turnover.

- Hospital staff and high school faculty have access to expand their SEI knowledge.

- All stakeholders participate in research on community-based MR education expanding access to approach opportunities and challenges.

- Establishes healthy communication and relationships between community elements – government, industry, and academia.

- Highly expandable to other STEM fields, U.S. career academies.

- Team well positioned within the state and nation to facilitate further adoption.

- Enhances national competitiveness through a revolutionary WBL approach.