

Research Associate Position in Educational Interface Design

Applications are invited for a Research Associate position on user-centered design of educational interfaces. Our research involves novel data collection and simulation infrastructure for designing interfaces based on users' speech, handwriting, and multimodal interactions during extended problem solving activities, collaboration, and while mobile. Our recent work has been conducting empirical studies with students, modeling and predicting cognitive load, performance, and learning during collaborative problem solving, examining students' natural multimodal communication patterns, designing new types of user-adaptive interfaces, designing interfaces that promote learning and education, and researching and designing flexible new interfaces based on digital paper and pen tools. Our recent research also includes a focus on multicultural education and diverse student populations, such as habitually low-performing students, minorities, and disabled student groups.

To be competitive, applicants should have a multidisciplinary profile of interests, which could include computer science and engineering, experimental psychology and cognitive science, linguistics and communications, educational psychology and multicultural education, or related areas. Candidates with interests and experience in any of the following areas would be best prepared for this position: user-centered design and prototyping of new interfaces, pen-based and multimodal interaction and interface design, mobile interface design, cognitive modeling, research methods and statistical analysis, and collaborative education and learning activities. Previous related work experience with diverse subject populations or educational interactions in schools would be a plus. Multidisciplinary teamwork experience and strong writing skills will be essential.

Incaa Designs is a Seattle-area 501(c)3 nonprofit scientific organization that researches, designs, and evaluates innovative new educational interfaces. Its scientists are internationally known for their human-computer interaction and interface design research on multimodal, mobile, speech, pen-based and educational interfaces. For further information or to apply via email, contact Sharon Oviatt at oviatt@incaadesigns.org. To apply, please submit a resume, names and contact information (phone and email) for 3 references, and a brief statement of career interests. Women, minority, and disabled applicants are especially encouraged to apply.