

SHP Fellowship in Interactive Clinical Design Interactive Clinical Design Institute Biomedical Informatics Research Center

THE INSTITUTION

Marshfield Clinic is one of the largest multi-specialty group practices in the country. The Clinic also has an impressive track record in applied Clinical Informatics. The internally-developed EHR is one of the oldest and most comprehensive in the country. The data warehouse contains coded diagnoses data back to 1960, with other coded data and digital documents back to the mid-1980's.

The Marshfield Clinic Research Foundation employs 175 researchers and staff. The Research Foundation is divided into five centers. The newest of these is the Biomedical Informatics Research Center (BIRC), which was founded in 2005. Currently the center employs about 25 scientists and staff. Research at BIRC focuses on informatics applied to practical clinical and research problems.

A major focus of BIRC is the study and improvement of Human Computer Interaction in the biomedical domain. The new Interactive Clinical Design Institute (ICDI), sponsored by Security Health Plan and housed in the Laird Medical Research Center, contains a state-of-the-art digital usability laboratory – one of the few devoted to healthcare studies.

THE CULTURE

The organizational culture is highly collaborative, emphasizing multidisciplinary approaches rather than silos. The institutional commitment to informatics is unparalleled. Marshfield Clinic is committed to involving informatics in the day-to-day operations and to using clinic operations as a living informatics laboratory. The Marshfield EHR was the first internal EHR to achieve CCHIT certification. Marshfield Clinic provides a unique opportunity for people who are interested in guiding the development of cutting-edge systems. For example, BIRC researchers are actively involved in usability studies of new EHR components. Another example of the institutional commitment is the new Laird Center for Medical Research, opened in July 2008 containing over 8,000 sq. ft. of new research space for BIRC. To meet center growth, plans are already underway for a second expansion phase.

THE POSITION

The position represents a unique opportunity for a junior researcher who is interested in the interface between people and technology in healthcare. The Security Health Plan Fellow in Interactive Clinical Design will be a member of the growing ICDI research team within BIRC. The fellow will both contribute to ongoing research projects, as well as propose research projects that will be suitable for external funding. Working with researchers and clinic IS staff, the fellow will design and execute a variety of HCI-related studies. Possible research foci could include: Data Visualization; Health Literacy; Workflow Analysis; Consumer Informatics; Home Health Monitoring; Mobile Healthcare Computing; or similar areas. The duration of the fellowship is two years. Start date is flexible, but is anticipated to be between January and July 2010.

THE RESPONSIBILITIES

The fellow will be responsible for contributing to the research activities of the ICDI. This will include design, conduct, analyze and interpret biomedical informatics research in the areas of Human Computer Interaction, User Experience and Interaction Design in Biomedicine. The fellow will provide day-to-day scientific oversight for the ongoing research projects in ICDI, under the direction of the ICDI director. The fellow is expected to publish in peer-reviewed journals, and to present research results at national and international meetings. The fellow will also participate in the development and writing of proposals for extramural funding.

THE REQUIREMENTS

Successful candidates will have doctoral preparation in Human Computer Interaction, Ergonomics, Psychology, Biomedical Informatics, Information Science, Cognitive Science or a related domain. Previous experience designing and conducting HCI experiments is expected. We are seeking highly motivated individuals who want to have a real

impact on the future of health care and to see their discoveries translated into operational systems. An ability to work in both multidisciplinary teams as well as independently is essential.

THE CHALLENGES

The BIRC is a young and growing informatics research team. This provides a high level of freedom and autonomy, but also requires that candidates be self-starters who are able to develop collaborative networks.

THE LEGAL STUFF

Employee may not at any time have been or be excluded from participation in any federally funded program, including Medicare and Medicaid.

Marshfield Clinic is an Affirmative Action/Equal Opportunity employer that values diversity. Minorities, females, individuals with disabilities and veterans are encouraged to apply.

THE PROCESS

More information about Marshfield Clinic's Biomedical Informatics Research Center is available at www.marshfieldclinic.org/birc. The Director of BIRC can be reached at starren.justin@mcrf.mfldclin.edu. Candidates should submit: a curriculum vitae; a cover letter discussing research interests and career goals; up to five relevant publications; and the names of at least three references to the Director of BIRC at: starren.justin@mcrf.mfldclin.edu or hard copy to:

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