NIDCR Supported Dental Informatics Postdoctoral Fellowships
The University of Wisconsin-Madison and Marshfield Clinic

The University of Wisconsin-Madison and Marshfield Clinic are currently recruiting trainees for its NIDCR/NLM-funded postdoctoral training program in dental informatics (Grant No. 5T15LM007359). Information about the dental informatics postdoctoral program and application materials can be obtained from the Computation and Informatics in Biology and Medicine Training Program (CIBM) Training Program by contacting:

Dr. Louise Pape, PhD,
Coordinator
CIBM Training Program
lpape@wisc.edu
608-265-7935
http://www.cibm.wisc.edu/

General inquiries about the Dental Informatics program at Marshfield Clinic can be directed to:

Ms. Dixie Schroeder,
D.I. Research Projects Coordinator
schroeder.dixie@mcrf.mfldclin.edu
715-221-7266

What Is Dental Informatics?
Dental informatics is a sub-discipline of biomedical informatics which focuses on the application of computer and information science to improve dental practice, research, education and management. During the last forty years Dental Informatics has developed into a research discipline of significant scale and scope.

Key Postdoctoral Fellowship Tracks
- Translational Dental Informatics
- Human Computer Interaction in Dentistry
- Dental Bioinformatics and Computing
- Clinical Research Informatics applied to:
  Oral Systemic Research
  Dental and Craniofacial Research

Required Qualifications
Candidates should possess a PhD in Dental Informatics, Biomedical Informatics, Computer Science, Information Technology, Bioinformatics, Computational Biology, or related field, or an DMD, DDS, MD with demonstrated strength in biomedical informatics prior to beginning their CIBM training program. All supported trainees must be permanent residents or U.S. citizens.
The National Institute for Dental and Craniofacial Research (NIDCR) funded Dental Informatics postdoctoral fellowship program will be primarily based out of the Marshfield Clinic site where Dr. Amit Acharya has established one of the very few and unique Dental Informatics Research and Training Programs in the country. The core research areas offered through this program are highly responsive to the designated priorities of the NIDCR and Healthy People 2020. While an individual’s scientific interest will play a major role in determining specific research activities, postdoctoral fellows will have opportunities to contribute to the following core research areas:

**Translational Dental Informatics:**
Decision support and knowledge management, Clinical ontology development, Information modeling, Integrated electronic health record architecture, Dental informatics standards development, Dental health information exchange, Patient portals and Personal health records.

**Human Computer Interaction in Dentistry:**
Design of novel clinical information systems in dentistry, Usability evaluation of electronic dental records, Non-touch modalities of interacting with dental information systems.

**Dental Bioinformatics and Computing:**
Examining the links between oral health and systemic health using electronic dental and health records, host genetic variation and oral microbiome characterization. Marshfield Clinic’s Oral/Dental Biobank subjects have consented to broad use of their electronic medical and dental records in research and have donated DNA, plasma, serum and oral microbiome samples.

**Clinical Research Informatics:**
Informatics Infrastructure for Dental Practice Based Research Network, Informatics Support for the Oral and Systemic Health Research, Dental i2b2 and SHRINE project, Virtual Dental Data Warehouse Design and Implementation.

**Key Resources at Marshfield Clinic**
- Integrated Medical-Dental EHR
- Enterprise Clinical and Research Data Warehouse
- Cutting-edge Human Computer/Usability Lab with Eye-tracking technology
- Analytics and Biostatistics Support
- Dental Biobank: Oral Systemic Research Project OSRP

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