

# Medical Informatics Postdoctoral Fellowship

Center for Innovation to Implementation (Ci2i)  
Veterans Affairs Palo Alto Health Care System and Stanford University

## Eligibility

Applicants must be U.S. citizens who have completed an M.D. and accredited residency or a Ph.D. in computer sciences, medical informatics, decision sciences, economics, or related fields. Applicants with strong quantitative and computer science background will be given priority. The VA is an equal opportunity employer.

## Application Requirements

### Professional statement

Applicants should submit a brief statement (not to exceed one single-spaced page) of their research activities and career goals and objectives, how they can contribute to the objectives of the training program, and how the program can contribute to the applicant's professional development.

### Demonstrated productivity

Applicants should provide details on education, professional activities and relevant achievements. In addition, applicants are asked to supply two examples of their work.

### Recommendations

Three written letters describing the applicant's competence, an estimate of how the applicant's performance ranks in relation to that of their peers, and the likelihood of the applicant making a contribution to the field of Medical Informatics.

### Interview

After an initial screening phase, top candidates will be interviewed.

## Program Co-Directors

Douglas Owens, M.D., M.S.  
Associate Director, Ci2i  
Veterans Affairs Palo Alto Health Care System  
Professor of Medicine, Stanford University

Ruth C. Cronkite, Ph.D.  
Training Director, Ci2i  
Veterans Affairs Palo Alto Health Care System  
Consulting Professor, Stanford University

## Program Associate Directors

Steve Asch, M.D., M.P.H.  
Director, Ci2i  
Veterans Affairs Palo Alto Health Care System  
Professor of Medicine, Stanford University

Mary Goldstein, M.D., M.S.  
Director, Geriatrics Research Education and Clinical Center (GRECC)  
Veterans Affairs Palo Alto Health Care System  
Professor of Medicine, Stanford University

## Training Program

Fellows are offered an opportunity to combine formal training in medical informatics with research applying medical informatics and information technologies to areas of relevance to the VA health care system.

## Core Content

Fellows will obtain focused training in medical informatics while also having the opportunity to complete foundational coursework in (1) essential health services research methods, (2) implementation sciences and systems redesign, and (3) research in collaboration with operational partners.

Fellows can pursue more advanced work in the context of medical informatics through concentrations:

### *Health Informatics Concentration:*

Clinical decision support; computerized order entry and alerts; healthcare information exchange; population health; big data and learning healthcare systems.

### *Health System Redesign/ Implementation Science Concentration:*

Organizational innovation for value production; implementation design and evaluation.

### *High-Value Health Care Concentration:*

Health economics; outcomes research; clinical decision making; health policy.

## Mentorship

Fellows will develop an individualized training plan through the guidance of a mentoring committee that will include a career mentor, faculty mentor(s) and implementation/operational partner mentor.

## Medical Informatics Research

Research opportunities in medical informatics are aligned with the broader research goals of (1) fostering high value mental health care, (2) fostering high value specialty care for chronic disease, and (3) advancing methods to assess and improve value.

- Medical Decision-Making, Clinical Decision Support Systems and Knowledge Acquisition.
  - o Using analytic approaches to aid development of screening and treatment strategies.
  - o Designing clinical decision support systems for different medical conditions.
- Enhanced User Interface Projects and Related Research.
- Quality of Care and Program Evaluation.
  - o Developing a prototype for manipulation and transfer of electronic medical record data for evaluation of process/quality of care and health outcomes.
  - o Accounting for quality of life and patient preferences in guiding treatment decisions.

## Contact Information

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