
GENNY LUENSMAN

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Required Skills:

Human Centered Design, Project Management, Communications.
Secondary Skills: Mobile App Development, Web Development, Responsive Web Design, Java, Python, Technical Writing

Preferred Team

Communications:

Webex, conference calls, skype for business

Data Sources:

Data is located at mentor's organization and is not publicly available. May require some approvals to grant students access to occupation and industry database.

Other Items:

Project has timezone flexibility. Mentors and students will determine a good time for virtual meeting

COLLECTING INDUSTRY AND OCCUPATION IN ELECTRONIC MEDICAL RECORDS

Collecting accurate Occupational Data for Health (ODH) is an important part of providing care, yet these data are not routinely and consistently managed in electronic medical records. The most difficult ODH data elements to collect are the patient's industry (type of business) and occupation (type of work) for their current job(s) and their usual, or longest-held work. Industry and occupation (I/O) are extensive, multifaceted concepts with several levels of complexity depending on the context. The valueset for industry includes ~21,000 titles and the valueset for occupation includes ~30,000 civilian titles and 27,000 armed services titles.

PROJECT OBJECTIVES

NIOSH is seeking a prototype technology tool for:

- effective (accurate) and efficient (minimal user burden) conversion of any adult patient's concepts of their current job and longest-held work into standardized titles and coded categories for occupation and industry,
- in the context of providing information through a patient user interface,
- for their electronic medical record,
- in English (for now),
- such that the data would become immediately available to the care provider and
- part of the patient's electronic medical record social history section within an electronic health record (EHR) or other health information system (HIS),
- to support patient care, population health, or public health.

SUCCESSFUL PROJECT

It is expected that the prototype solution(s) will:

- provide help functionality;
- strongly encourage a patient to enter accurate standardized titles for current and usual industry and occupation, while still allowing the user to select a category and provide a free-text title or to provide only a free text entry (e.g., if an industry or

Intellectual Property: Project involves a government agency so the resulting project is made available to the public. Students do not own IP. Students will be recognized as contributors.

occupation is so new that a standardized title is not yet available) only if needed;

- give an opt-out choice;
 - minimize the time (including any latency time) and effort (e.g., number of clicks) required to enter accurate data;
 - populate the data into the social history section of an EHR so that it can be used for clinical care;
 - comply with Section 508 of the Rehabilitation-Act.
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