

Mayo brings extensive experience in terminology development and management, and has in-depth technical knowledge of LexBIG, Semantic Media Wiki, and Protégé?the key tools in the caBIG® vocabulary domain. Semantic Bits will develop the online resources, including the knowledge base, that delivers these vocabulary resources to those who want to build their own interoperable tools and systems.

Mayo Clinic

Mayo Clinic is a multi-campus, academic medical center focused upon patient care, research, and education. Employing nearly 50,000 people over 5 states, the organizational, information technology, communications, and support infrastructure of the Mayo Clinic enterprise are vast. The Division of Biomedical Statistics and Informatics enjoys full access to the organizational resources, and will leverage these in the development and operation of the caBIG® Vocabulary Knowledge Center. The Division of Biomedical Statistics and Informatics at Mayo Clinic has engaged in many large, multi-institutional projects. Most pertinent to this VCDE Knowledge center is Mayo Clinic's development and maintenance of the caBIG® LexBIG suite of terminology services, one of the core resources for which the knowledge center is being created. Mayo Clinic project responsibilities are being expanded by NCI to support the entire EVS (Enterprise Vocabulary Services) software stack, which will tighten the relationships between LexBIG and the caCORE suite of NCI software services. Additionally, Mayo Clinic has been a primary developer, in partnership with NCI and Apelon, of the LexWiki resources which invoke Semantic Media-Wiki tools and resources. Both the LexBIG and LexWiki development projects have required substantial coordination across caBIG®, the Cooperative Cancer Treatment Groups, NCI, WHO (World Health Organization), and associated developers. Mayo Clinic has functioned as the primary coordination site for LexBIG development, and facilitates multi-party collaboration of LexWiki.

SemanticBits

SemanticBits is a technology consulting firm specializing in the design and development of software systems for health and life sciences industry. They are experts in object-oriented analysis and design (OOAD), UML, model driven architecture (MDA), and agile methodologies. They are strong proponents of secure, standards-based, open source technologies. SemanticBits practices process intensive software development in order to achieve the best quality. They strongly believe in domain driven design and framework based development. Their commitment towards open source technology and reuse of the existing infrastructure creatively helps minimizing the cost of software and solution development. SemanticBits excels in developing semantically and syntactically interoperable systems based on enterprise metadata repositories and vocabularies using sound service oriented architecture (SOA) principles. SemanticBits is currently engaged in various projects spread across different caBIG® workspaces. A number of SemanticBits employees also have made significant contributions in leadership roles to various key projects at NCI-CBIIT. Some of the projects include caDSR, CSM, and caCORE SDK.