 POSITION SUMMARY
Reporting to the Systems Consultant II and working under the direction of the Digital Humanities Innovation Lab Planning Committee, the Systems Consultant I (Library Digital Humanities User Interface Developer) designs, develops, and maintains custom web-based and other user-facing applications in support of Digital Humanities research and pedagogy at SFU. The Systems Consultant adapts and extends existing open source software across a variety of platforms, frameworks, and languages; and works with faculty and university staff to determine the most effective approach to meeting agreed-upon requirements.

DUTIES AND RESPONSIBILITIES

1. **Develops and extends custom web-based applications in support of Digital Humanities research and pedagogy** by:
   - Adapting and extending existing open source and vendor software across a variety of platforms (e.g. Drupal, Wordpress, eXist, Omeka)
   - Recommending which open source software license should be applied to custom applications
   - Working in teams with other developers, librarians, faculty, and staff to create user interfaces for these applications

2. **Determines functional, user experience, operational constraints, sustainability, and maintainability of technical solutions** by:
   - Working with faculty, students, Library staff, and other stakeholders to determine the best solutions to agreed-upon functional requirements
   - Providing consulting support to determine project priorities and assisting with grant applications
   - Recommending changes to policies, procedures and services that may impact long-term objectives and operations
   - Providing design and applications training to Research Assistants (e.g. user interface design, user experience design, usability testing, Javascript, CSS)

3. **Creates and maintains technical and end user documentation for all custom and open source applications** by:
   - Developing training materials and detailed user documentation and guides
   - Gathering and documenting technical requirements and specifications, and making recommendations on technology solutions, design, and sustainment

4. **Keeps up-to-date on new and emerging technologies affecting web application user interfaces and digital humanities technologies** by:
   - Conducting research and attending relevant courses, workshops and conferences
   - Evaluating and testing new open source applications, tools, and platforms
   - Making recommendations regarding the use of new technologies

IMPACT OF DECISION MAKING
The Systems Consultant I is responsible for:
- Determining software architecture and technologies based on user and system requirements, with a focus on functionality, sustainability, security, and maintainability
- Providing consultation for research grant development and application
RELATIONSHIPS
Establishes and maintains relationships and alliances. Maintains effective communication. Shares information and readily
determines to whom to go for relevant information. Seeks assistance and feedback in the problem solving process. Partners with
others to achieve expectations.

Primary Working Relationships
Internal/External: Works closely with developers, librarians, faculty, students, Research Assistants, and university staff.

QUALIFICATIONS
Bachelor’s degree in Computing Science and four years of related experience in areas such as software development and web
development, including experience in user interface/user experience implementation, open source licenses, working directly with
stakeholders, and as a member of a diverse project team; or an equivalent combination of education, training and experience.

- Excellent knowledge of a range of software development technologies used in the developing web-based user interfaces
  (e.g. AJAX, JQuery, HTML, CSS, Bootstrap, templating and theming frameworks).
- Excellent knowledge of a range of software development platforms commonly used in digital humanities (e.g., Drupal,
  Wordpress, eXist, Omeka, Open Journal Systems).
- Good knowledge of web browser-based automated testing tools (e.g. Selenium).
- Good knowledge of web-based data visualization technologies.
- Good knowledge of various open source licenses and their effect on combining or distributing open source code with
differing licenses.
- Excellent knowledge of cross-platform web-browser compatibility issues.
- Excellent knowledge of common web-application security vulnerabilities and mitigation practices.
- Excellent interpersonal and communication skills (verbal, written, and presentation).
- Ability to adapt to working in an environment with rapidly shifting priorities.
- Ability to create technical and end user documentation.
- Ability to explain technical issues to non-technical personnel.
- Ability to work well in cross-disciplinary teams and in a collaborative environment.
- Ability to work flexible hours.