University of Alberta

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Digital Humanities Specialist

Information Services and Technology

Competition No. - **S101324477**

Posting Date - **Aug 18, 2014**

Closing Date - **Sep 30, 2014**

Position Type - **Full Time - Operating Funded**

Salary Range - **$72,025 to $101,963 per year**

Grade - **13**

Hours - **35**

This position offers a comprehensive benefits package which can be viewed at: www.hrs.ualberta.ca.

Reporting to Director of Research Computing, Digital Humanities Specialist (DH Specialist) provides Digital Humanities (DH) and related support to researchers at the U of A and other Universities in associated research consortia (WestGrid/Compute Canada) to facilitate their research. The supports include research level consultation for DH and High Performance Computing (HPC), expert level advice on the use of HPC resources in DH, recommendation and support of DH applications, and support of information visualization. The DH Specialist also participates in WestGrid/Compute Canada's working groups and provides input to the development and implementation of local and national DH strategies, and takes a strong role in new DH initiatives. It is essential for the DH Specialist to have a strong understanding of the current and future state of information science/digital humanities research. The successful candidate can look forward to an energetic, professional team environment where there is a commitment to personal and professional growth.

Duties

- Provides a national, research-level consulting service for Digital Humanities and High Performance Computing that includes but is not limited to:
    - Working with researchers to develop novel research methodologies that use HPC in the DH
    - Analyzing and proposing solutions for research-level problems in the Canadian Digital Humanities community
    - Acting as solutions architect and technical lead for the implementation of such solutions
    - Supporting non-technical Humanities researchers whose projects have extended into the digital realms of HPC or Big Data
- Provides expert advice on the use of HPC and resources of research consortia in the Digital Humanities
- Works with researchers to identify DH application suites that provide solutions and analysis tools
- Installs DH application and tests, and instructs researches for the use of the application
- Works with researchers to develop analysis and visualization methodologies for research data, and implements these methodologies
- Works with the other expert groups including Westgrid/Compute Canada visualization group in recommending new facilities and software

- Participates in the development of Web-based scientific portals in areas such as architectural design, analysis of existing DH portal and portal software, creation of DH databases and corresponding analysis tools, and web programming
- Participates in outreach and research consortia activities that includes but is not limited to:
  - Providing one on one and advanced instructions to researchers
  - Developing presentations, courses or workshops to research consortia user groups
  - Training of Compute Canada staff to deliver courses or workshops to users

Qualifications

- Master's degree in a field related to the Digital Humanities; equivalent combinations of education and experience will be considered
- 5 years experience in Digital Humanities or related areas
- In-depth background in the Digital Humanities, including extensive experience with research and research support
- Experience related to text analysis and text mining applications and open-source frameworks
- Working experience in one or more industry-leading tools for statistical analysis, information visualization
- Experience with installing, managing, and troubleshooting repository and indexing systems (e.g. Fedora, Solr, Islandora)
- Experience with installing and configuring advanced media streaming servers (e.g. Serviio, VideoLAN)
- Experience with scientific languages/packages such as R, Matlab, python, Google Fusion, SEASR, TAPoR
- Experience with creation and administer linux-based virtual machines on one or more industry standard hypervisors (Xen, KVM, etc)
- Experience with the use of Infrastructure-as-a-Service (IAAS) clouds
- Experience with grant writing and the development of research proposals
- Experience with information management, including information architecture, database design and development, data mining, data processing, pattern recognition and data visualization
- Experience with Agile and other web-development project management methodologies
- Extensive experience with a range of languages such as Ruby, Rails, SolR, Python, java, javascript and PHP
- Some experience with standard SQL databases like MySQL or PostgreSQL
- Experience with the specific development of scientific portals would be an asset
- Experience with "Big Data" projects and HPC would be an asset, in particular experience with No-SQL databases like Lucerne, and Hadoop

How to Apply

Apply Online

Note: Online applications are accepted until midnight Mountain Standard Time of the closing date.

We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.

The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including

persons with disabilities, members of visible minorities, and Aboriginal persons.