RESEARCH PROGRAMMER
Carl R. Woese Institute for Genomic Biology
University of Illinois at Urbana-Champaign

Duties and Responsibilities: Support the information technology needs of faculty, staff and students through consultation, research and hands-on support. This is achieved through many avenues ranging from standard desktop support all the way through intensive programming and system design. Monitor and service network backbone devices to maintain security and high availability. This involves monitoring of alerts and system logs for failures or deficiencies in system design and security. Plan hardware refresh of devices involves building new hardware systems to support the current and expect future needs the hardware is to provide, planning a migration plan with the users to minimize the impact it will have on their ability to do research. Support bioinformatics research involves installing bioinformatics and instrumentation software, develop new software and scripts to support research, and configuring and troubleshooting existing research computer and network systems. Providing administration for faculty sponsored servers involves configuring the server for the particular needs of the faculty or research group. It should be configured using best practices and to maintain the security of the research data. Software creation and configuration involves the design and implementation of software by gathering requirements from the user, using standard practices such using a code versioning system, and having proper documentation of the software for future development. Provide system administration for UNIX, Windows and Macintosh servers involves updating system packages and software, configuring system firewalls, managing data backup of the system, writing scripts to manage the data flow on the system, and documenting the changes for future reproducibility. Develop and support IT resources needed to enhance the IGB's ability to fulfill its mission involves computer network design and implementation, designing central resources such as Teleconferencing, Audio/Video systems, data and email solutions. Respond to potential and actual security breaches involves applying updates to systems with known vulnerabilities, manage firewall settings, using sound practices to safeguard user's data and other private information, using standard practices to diagnose and clean an infected system. Act as liaison to campus groups such as Technology Services, AITS, and other IT groups to troubleshoot issues involving networking, email, telephones, and other central services.

Qualifications: Required qualifications: A bachelor’s degree. Two years of experience in the computing field and experience with UNIX, Windows and Macintosh environments from a system administration and end-user perspective. Desired qualifications include: demonstrated expertise in information technology consulting; working knowledge of Internet protocols; firewall configuration; client/server technologies for e-mail, file storage, web, web applications, backup, calendaring, authentication & authorization; basic knowledge of bioinformatics software and techniques; working knowledge of wireless & wired networking hardware and protocols; information technology security principles and practices; consumer- and server-grade hardware & software platforms; familiarity with at least two programming language (e.g. Ruby, Lua, Python, Perl, C++, Ajax, etc) and common software development practices; ability to compile and deploy applications from source code; familiarity with a range of common desktop applications.
Salary will be commensurate with experience and qualifications. This position is a 12-month, 100% time academic professional appointment with regular University benefits. The proposed starting date is negotiable after the close date.

Please create your candidate profile at http://jobs.illinois.edu and upload your letter of interest (including email address), resume and contact information for three professional letters of reference by January 31, 2016. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. All requested information must be submitted for your application to be considered. For further information regarding the application procedures, you may contact Kim Johnson, kljohns@illinois.edu.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, sexual orientation, gender identity, age, status as a protected veteran, status as a qualified individual with a disability, or criminal conviction history. Illinois welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusiveillinois.illinois.edu).