

# ILLINOIS

## Extension

### COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES



## Web Application Developer / Senior Web Application Developer

### POSITION OVERVIEW

The Extension Web Application Developer serves as a regular, full time, 12-month position with primary responsibility for designing, developing and supporting online course technology, websites, and web applications as part of a team to enable University of Illinois Extension's outreach mission and internal functions. This includes Learning Management System integration with: internal business applications, workflow processes, university systems, and content management systems; website development; and front-end design and theming.

One full time position is available

**Location:** Urbana-Champaign Campus

*This is a security a security-sensitive position. Comprehensive background checks, including but not limited to a criminal conviction information check, a CANTS check, and a review of the Registered Sex Offender list, will be conducted.*

### RESPONSIBILITIES (Web Application Developer)

- Design, develop deploy, migrate and support Extension online educational course technologies, platforms, and standards.
- Maintain, support and develop migration plans for legacy courses, applications, and code base.
- Develop and support database-driven websites, mobile applications and internal business applications to meet Extension's programming and operational needs.
- Maintain, evaluate, and support U of I Extension digital applications and databases.
- Ensure protection and security of data that is accessed, collected, or stored by web applications and databases.
- Provide data reporting and data analysis for online courses (google analytics, Tableau)
- Work with Extension online educational specialists, online educational producers, graphic designers, and data analysts to develop standards-based user interface and user experience functionality in web and mobile applications.
- Engage productively in web team agile development process, effectively estimating time-to-completion for project tasks and working efficiently to produce tangible deliverables.
- Serve as Tier 1 support for web applications and learning management systems to resolve customer issues to satisfaction. Provide Extension Educators with technical support to launch and maintain Extension online courses.
- Collaborate with desktop support team members to provide excellent customer service.
- Collaborate with web team members to improve the overall software design, development, testing, release, and support processes.
- Conduct analysis of Extension tools to ensure their quality, security, efficiency and effectiveness.
- Produce documentation of learning management systems and web applications including requirements and design documents, code documentation, user documentation and other reports as needed.
- Comply with all University of Illinois Extension Affirmative Action/Equal Opportunity policies and guidelines in all aspects of Extension work; assist unit staff with data collection for Affirmative Action, Gender, and Targeted reports as needed.
- Assume additional related responsibilities to enhance the mission of the unit.

### APPLICATION DUE

November 27, 2019

### PROPOSED START DATE

As soon as possible after the closing date

### SALARY

Commensurate with experience

### TO APPLY

Go To:

<http://go.illinois.edu/124459>

Log in to your account and upload a cover letter and resume, as well as the names and contact information of three professional references.

### MORE INFORMATION

The position is a full-time, benefits-eligible, civil service Information Technology Technical Associate position appointed on a 12-month service basis.

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### RESPONSIBILITIES (Senior Web Application Developer)

- Design, develop, deploy, migrate and support Extension online educational course technologies, platforms, and standards.
- Maintain, support and develop migration plans for legacy courses, applications, and code base.
- Develop and support database-driven websites, mobile applications and internal business applications to meet Extension's programming and operational needs.
- Maintain, evaluate, and support U of I Extension digital applications and databases.
- Implement protection and security of data that is accessed, collected, or stored by web applications and databases.
- Provide data reporting and data analysis for online courses (google analytics, Tableau)
- Work with Extension online educational specialists, online educational producers, graphic designers, and data analysts to develop standards-based user interface and user experience functionality in web and mobile applications.
- Engage productively in web team agile development process, effectively estimating time-to-completion for project tasks and working efficiently to produce tangible deliverables.
- Design Web Architect and data warehouse.
- Design and develop modern and efficient Extension digital applications with well-structured web architecture design.
- Provide guidance for the architectural planning for frameworks.
- Create technical literature, such as training materials or sample code, to encourage acceptance of frameworks.
- Ensure system integrity by utilizing proper architectural designs.
- Provide status reports to management on the current status of frameworks.
- Serve as Tier 1 support for web applications and learning management systems to resolve customer issues to satisfaction. Provide Extension Educators with technical support to launch and maintain Extension online courses.
- Collaborate with desktop support team members to provide excellent customer service.
- Collaborate with web team members to improve the overall software design, development, testing, release, and support processes.
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- Assume additional related responsibilities to enhance the mission of the unit.

### QUALIFICATIONS (Web Application Developer)

#### REQUIRED:

- Bachelor's degree
- Three years progressively more responsible experience building Web Applications and working with business applications.
- Agile development experience.
- Experience providing end-user support on web technologies.

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

*The University of Illinois is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans, and individuals with disabilities are encouraged to apply. For more information, visit [go.illinois.edu/EEO](http://go.illinois.edu/EEO).*

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## Web Application Developer / Senior Web Application Developer

### PREFERRED:

- Experience building platforms to support open standards using xAPI or SCORM.
- Experience migrating, customizing, and supporting courses for a LMS system (such as Moodle, Blackboard, etc.).
- Experience developing web and business applications using PHP, MySQL, Ajax and other front end framework technologies.
- Experience developing and maintaining websites in a Higher Ed environment.
- Experience editing and creating documentation.
- Experience participating in diverse workgroups.
- Experience with the software development lifecycle, quality assurance with automated testing, release management, and problem resolution.

### KNOWLEDGE, SKILLS, AND ABILITIES:

- Proficiency in HTML, CSS, front-end frameworks (i.e. React.js or Vue.js) and at least one other programming language (PHP is preferred). Understanding of OpenID, OAuth2 or SAML. Understanding of multiple web-hosting platforms and portal applications. Demonstrated excellence in customer service. Working knowledge of best practices for the web, including accessibility and usability standards. Ability to work independently and as part of a team. Ability to work with dynamic, database driven websites. Understanding of existing and legacy code. Knowledge of JQuery, CSS, and Front-End framework (ie. Angular.js, Vue.js, React.js). Knowledge of Authentication and Authorization. Willingness to learn new programming languages and frameworks. Excellent organizational skills. Demonstrated well written and verbal communication skills. Knowledge of xAPI and SCORM. Strong skills in Learning Management System design. Knowledge of online course development tools and project cycle. Skill in writing SQL Stored Procedures and Triggers. Knowledge of the University of Illinois and Extension and the mission, goals, and purpose of outreach within the land grant system.

### QUALIFICATIONS (Senior Web Application Developer)

#### REQUIRED:

- Bachelor's degree
- Minimum seven years progressively more responsible experience building web applications and internal business applications.
- Development experience with authentication and authorization using either OpenID, OAuth2, SAML or other standards.
- Experience with integrated front end and back end development.
- Development experience with multiple web-hosting platforms and portal applications.

#### PREFERRED:

- Experience migrating, customizing, and supporting courses for a LMS system (such as Moodle, Blackboard, etc.).
- Experience building platforms to support open standards using xAPI or SCORM.
- Experience developing web and business applications using PHP, MySQL, Ajax and other front-end framework technologies (i.e. React.js or Vue.js).
- Experience building Progressive Web Apps(WPA).
- Experience developing web application using OpenID, OAuth2 or SAML.
- Experience developing and maintaining multiple web-hosting platforms and portal applications.
- Experience editing and creating documentation.
- Experience participating in diverse workgroups.
- Experience with the software development lifecycle, quality assurance with automated testing, release management, and problem resolution.

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## Web Application Developer / Senior Web Application Developer

### KNOWLEDGE, SKILLS, AND ABILITIES:

- Proficiency in HTML, CSS, front-end framework (i.e. React.js or Vue.js) and at least one other server side programming language (PHP is preferred.) Development experience with JQuery, CSS and other front-end frameworks. Implementation of Authentication and Authorization. Demonstrated excellence in customer service. Implementation of the working knowledge of best practices for the web, including accessibility and usability standards. Ability to work independently and as part of a team. Ability to work with dynamic, database driven websites. Willingness to learn new programming languages and frameworks. Excellent organizational skills. Demonstrated well written and verbal communication skills. Ability to integrate new applications with existing and legacy code. Proficiency in PHP, React.JS, and at least one other programming language. Knowledge of xAPI and SCORM. Strong skills in Learning Management System design. Knowledge of online course development tools and project cycle. Skill in writing SQL Stored Procedures and Triggers. Knowledge of the University of Illinois and Extension and the mission, goals, and purpose of outreach within the land grant system.

### ENVIRONMENTAL DEMANDS

To perform the functions of this position, the employee will be required to perform work both within an office and outside in the communities that are served, and must have the capability to travel from one location to the other in a timely fashion. Employee is responsible for securing personal transportation. Some work will be required during evenings and/or weekends. When working, the employee may be exposed to a variety of environmental factors to include, but not limited to, hot or cold weather, exposure to noise and allergens, and uneven ground. In performing the functions of this position, the employee may be subjected to various mental and physical demands as well to include, but not limited to, independently traveling to and performing work at different locations, lifting and moving items that may occasionally weigh up to forty (40) pounds and frequently weigh up to twenty (20) pounds, and twisting, pushing and pulling movements.

### APPLICATION PROCEDURE:

Applications must be received by **November 27, 2019** (<https://go.illinois.edu/124459>). Apply for this position using the "Apply for Position" button. If you have not applied before, please create a candidate profile at <https://jobs.illinois.edu>. If you already have a profile, you will be redirected to that existing profile via email notification. Please be sure to address how you meet each requirement of the position in your cover letter and/or resume. To complete the application process:

- Step 1) Submit the Staff Vacancy Application.
- Step 2) Submit the Voluntary Self-Identification of Disability forms.
- Step 3) Upload your cover letter, resume (months and years of employment must be included), and academic credentials (unofficial transcripts or diploma may be acceptable) and names/contact information for three references.

An online application will require names and contact information including email addresses for three references. In order to be considered as a transfer candidate, you must apply for the position. Applications not submitted through this website will not be considered. For further information regarding application procedures, you may contact Ashley Grilo ([ashleygg@illinois.edu](mailto:ashleygg@illinois.edu)).