

UMass Summer Computer Technology Internship Program for Summer 2008

Multimedia Developer for Nanotechnology Learning Modules

A. General Summary of Position

Internship in the development of multimedia educational software for teaching the principles of nanotechnology and the manufacture of nano-scale devices. The intern will work in the Center for Educational Software Development assisting the Multimedia Director in the development of online learning modules combining video, animation and other media for a large nanotechnology research center on campus. This is a joint project with Springfield Technical Community College, but all are encouraged to apply.

B. Examples of Duties

1. Work with nanotechnology content experts and multimedia developers to assist in the design and implementation of online learning modules.
2. Shoot and edit video of nanotechnology manufacturing processes to be used in learning modules and on website.
3. Record audio voice-overs for modules.
4. Create graphics and 3-D animations of nano-scale devices and processes.
5. Build educational modules incorporating text, graphics, video and audio, following procedures and conforming to standards.
6. Assist with testing and quality assurance.
7. Help package modules for delivery in multiple and varied educational settings. Apply metadata to track and organize modules and components.

C. Qualifications

1. Interest in educational applications of multimedia and interactivity.
2. Basic working knowledge of computer graphics, animation, video and audio principles. Experience with Flash, Swift 3D and Final Cut Pro desirable.
3. Competence with computers and standard applications such as word processors and spreadsheets. Comfort with Mac OS desirable.
4. Familiarity with physics, chemistry or nanotechnology desirable but not required.
5. Willing to take on challenges and tasks as they arise.
6. Ability to work effectively in a highly organized manner, paying close attention to detail is essential.
7. Excellent communication skills, both written and oral.
8. Good academic standing.

Hiring preference may be given to applicants who intend to transfer to the University of Massachusetts Amherst in Fall 2008.

The University of Massachusetts Amherst is an Affirmative Action Equal Opportunity Employer. Students from traditionally under-represented groups are especially encouraged to apply. The selection process will not discriminate against any student on the basis of color, ethnicity, gender, sexual preference, religion or disability.

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