

STEM Curriculum Coordinator/Writer

Center for Biophotonics Science and Technology, University of California, Davis

RESPONSIBILITIES

The Center for Biophotonics Science & Technology (CBST) at the University of California, Davis invites applications for the position of Science, Technology, Engineering, and Mathematics (STEM) Curriculum Coordinator/Writer (Grades 7-12). Reporting to the Chief Education Officer of CBST, the STEM Curriculum Writer will lead a curriculum writing team in preparing four high school curriculum modules on biostatistics and cancer for a project funded by the National Institutes of Health. The five-year project involves the development and dissemination of four unique web-based curriculum modules that use National Cancer Institute health and clinical trials databases and educational resources to create challenging scenarios and problem sets that engage high school students with scientific research design and analysis. At the same time, students will become better informed about cancer science, health disparities research, clinical trials, and STEM careers. The web-based modules will be designed to stand alone or incorporate into existing science, mathematics or health education programs. The Curriculum Writer, working in close collaboration with the project's Principal Investigators, external advisory panel, and a teacher advisory panel, will act as the primary person in charge of writing and editing the curriculum modules.

In addition to writing and editing responsibilities, the Curriculum Coordinator/Writer will coordinate all phases of module development, evaluation, revision, and dissemination, including pilot testing of modules with local school partners and web-based national field-testing. This position involves supervision of student assistants assigned to the project, ongoing communication with the external advisory and teacher panels, and documentation of the development process and progress in annual reports to the funder. The Curriculum Coordinator/Writer also will prepare research papers/reports and make oral and written presentations to practitioner and professional groups including educational researchers, as needed.

CBST is the only center in the country funded by the National Science Foundation devoted to the study of light and radiant energy in biology and medicine. The Center brings together scientists, industry, educators and the community to research, develop, and communicate new applications in biophotonics. The Education and Outreach Program of the CBST, started in 2003, is committed to developing and strengthening the workforce and scientific literacy in STEM (Science, Technology, Engineering, Mathematics) areas. To accomplish this overall objective, we develop, help deliver, evaluate, and conduct research on our work to provide innovative and effective educational STEM experiences, products, and pathways that prepare and empower diverse participants from middle school through graduate students and the public to pursue STEM knowledge and careers.

For more information, please visit <http://cbst.ucdavis.edu/>

QUALIFICATIONS

Required: A Master's Degree in Teaching, Curriculum, Learning Sciences, STEM Education, or other relevant field. Demonstrated experience with STEM curriculum development at the secondary level. Teaching experience in grades 7-12 STEM courses, preferably biology,

mathematics, statistics, or related subjects. Demonstrated track record of successfully working with STEM teachers in grades 7-12. Understanding of issues with regard to 7-12 STEM teaching and learning, especially issues of instruction in multicultural settings and for linguistically diverse and underserved students. Professional ability to interact effectively with university researchers, high school and informal education instructors, and students. Excellent communication skills (writing and presenting). Proficiency working with computers, technology, and software including, but not limited to, word processing, spreadsheet, presentation, and internet (no programming required). Strong work ethic; works well under pressure and with multiple competing deadlines

Preferred: A Ph.D. or Ed.D. in Teaching, Curriculum, Learning Sciences, STEM Education, or another relevant field. Experience with web-based curriculum development and delivery. Professional ability to write grants and manage extramural funding. Experience managing complex projects that require coordination of multiple sites, deadlines, and deliverables.

COMPENSATION

This is a full-time, 12 month position at the Academic Coordinator, Level I designation that has a yearly salary range of \$ \$44,400 - \$84,528. Up to midrange will be considered for highly qualified applicants. The percentage appointment is 100% effort per fiscal year for the first three years and 80% effort for the remaining two years with potential for renewal dependent on securing additional future funding.

APPLICATION DETAILS

Application materials must include: (1) a letter of interest; (2) curriculum vitae; and (3) five references (including name, address, phone number and email). Applicants should fully describe qualifications and experience, since the initial review will serve to evaluate applicants based on documented, relevant qualifications and professional work experience. The review of materials will begin **October 16, 2009** and will remain open until filled. Materials should be addressed via email (preferred) to: edjobs @cbst.ucdavis.edu with subject heading SEPA Curriculum Coordinator/Writer, or by postal mail to: Center for Biophotonics Science and Technology, Attn: Suzanne Papamichail, 2700 Stockton Blvd., Room 1400, Sacramento, CA 95817

The NSF Center for Biophotonics Science and Technology at UC Davis is committed to building a more diverse faculty, staff, and student body as it responds to the changing population and educational needs of California and the nation. The University of California is an affirmative action/equal opportunity employer.