



25 Love Lane  
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## TITLE

### SENIOR RESEARCH SCIENTIST

## GENERAL DESCRIPTION

The Concord Consortium is an educational nonprofit with an international reputation for innovations in technology that improve teaching and learning. Our research and development efforts have been widely adopted and have had broad impact throughout education. We have an exciting permanent, full-time opening for a Senior Research Scientist in educational technology with expertise in the physical sciences. We are looking for an outstanding person who is extremely knowledgeable in physics and chemistry content and educational research, and who is familiar with educational technology, schools, and project work. The ideal candidate would be flexible, willing to contribute to several projects in different roles, developing curriculum, designing new technology, undertaking research on learning, providing professional development, and developing proposals for new work.

The candidate will be able to contribute initially approximately equally to three important projects funded by the National Science Foundation that all involve using computational models embedded in rigorous curricula to improve science teaching and learning. One project (LOOPS) is exploring the value of feedback to teachers from electronic inquiry-based materials in middle grades physical science. The second (Electron Technologies) is developing and testing electronic technician curricula based on molecular dynamics models. The third (CLEAR) uses computer-based materials to explore exploring student retention over several years of energy concepts at the elementary level. Over the next few years, the candidate can be expected to be involved in proposing and running new projects.

The successful candidate will need an advanced degree in chemistry, physics, or allied field, knowledge of school and community college science content, educational research experience, expertise in curriculum design, classroom experience, excellent communication and interpersonal skills and possess the ability to work with many different people with differing academic backgrounds. The candidate should have the experience and credentials required to be a Principal Investigator of major educational research projects in STEM fields.

The Concord Consortium has an informal but fast-paced, collaborative working environment fully supported with technology and comfortable workspaces. A full range of benefits is available.

## SPECIFIC RESPONSIBILITIES

Development of computer-based learning activities for physical science and electronics using molecular dynamic software.

Development of student assessment items.

Formative assessment of our materials through classroom observation and analysis of student work

Development of teacher support materials

Professional development of teachers in the use of our materials.

Collaborative development of new materials with university faculty and teachers.  
Research on student and teacher learning using materials based on educational technologies  
Development of proposals for further funding.

### QUALIFICATIONS

Doctoral degree in chemistry, physics, or allied field.  
Classroom teaching experience.  
Knowledge of the research literature in science education.  
Experience in designing and administering educational research.  
Excellent communication skills in both written and spoken form.  
Experience in educational technology and its applications and assessment in mathematics and science.  
The successful candidate will be required to work on site and must be authorized to work in the United States.

### SALARY

\$70,000 to \$80,000 full time annual salary, depending on qualifications.

### TO APPLY

- Please email resume & cover letter to:

[srsciphyjob@concord.org](mailto:srsciphyjob@concord.org)

Attn: Yu-Ling Wu  
Concord Consortium  
25 Love Lane  
Concord, MA 01742

The Concord Consortium is an EEO employer. It does not discriminate on the basis of sex, age, race, religion, handicap, national origin, sexual orientation, or veteran's status.