



JOB OPPORTUNITY SUMMARY

TITLE: Senior Research Scientist

BASIC FUNCTIONS AND RESPONSIBILITIES

Provide scientific and technical skills in conceptualizing, designing, obtaining support for, conducting, and managing one or more of the following: (1) major research projects or (2) major development projects, particularly those for which scientific principles are applied to the creation of (1) tools to improve the efficiency or quality of the practice of test development or statistical analysis; (2) new item types; (3) the scoring of responses to open-ended items; (4) innovative assessment prototypes or products. Disseminate results and implications of projects.

Supervise cognitive research scientists and provide managerial guidance to staff assigned to projects.

Participate in determining research policies and priorities, which have broad organizational implications. Serve on policy and planning committees.

Generate or contribute to new or modified theories of educational and psychological processes, research methodology and analytic or interpretative procedures that are relevant to educational assessment. For example, develop and validate cognitive models of competency, learning, and/or development in areas related to education. While application to STEMs-related academic areas (science, technology, engineering, and mathematics) is of special interest, it is not required.

Advance the area of educational assessment by applying principles from cognitive science, computer science and education to the research, design, and development of new methods of gathering and scoring evidence of students' knowledge, skills, and abilities, including the design of innovative assessment tasks. This may include the use of new technologies and approaches such as evidence-centered design, user-centered design, interaction design, video game design, etc.

Provide leadership for the development of new products or services for education. Conceptualize, design and provide leadership for the conduct of major research, development, or large-scale analysis projects usually involving coordination of a variety of professional and support personnel.

Plan long-term substantive research agenda that draws upon the cognitive sciences, and new technologies to advance the field of educational assessment including but not limited to summative assessment and formative assessment of and for students and teachers.

Provide leadership in the development of proposals for major research, development, or large-scale analysis projects and obtain financial support for new or continuing research activities. Coordinate the development of initial and final proposal and program budgets.

Design and conduct complex scientific studies functioning as an expert in the major facets of the programs; respond as a subject matter expert applying acquired knowledge and experience to questions of broad policy implication. Provide expert consultation and collaboration on problems

arising from substantive research and/or testing programs, or corporate management concerns.

Direct the scientific, financial and administrative conduct of major research, development, or large-scale analysis projects, exercising well-developed skills in the management of human and other resources. Oversee the development and application of technical competence of less senior staff.

Implement dissemination activities utilizing various methodologies to reach specific audiences. Disseminate knowledge, particularly the results of activities through the publication of research papers, progress and technical reports, the presentation of seminars or other appropriate communication vehicles.

Initiate, develop, promote and maintain professional relationships as representative, consultant or advisor to external advisory or policy boards and councils, research organizations, educational institutions and educators. Respond to requests initiated by professional colleagues, educators, and as appropriate the press and the public. Maintain appropriate contact with funding agencies for the development of new research programs and projects.

May regularly carry out administrative responsibilities related to planning and monitoring research activities in areas of interest to ETS or one of its clients.

EDUCATION

A Ph.D. or Ed.D. in a Cognitive Science-related field, Educational Psychology, or Educational Technology or similar area is required.

EXPERIENCE

Eight years of independent research experience providing evidence of continuing and substantial contributions to a field of study are necessary.