Classification: Elec. Generation System Program Spec. I	**Position No.** 3500-4847-001
CBID: R09	**Office:** Energy Deployment and Market Facilitation
Date Prepared: January 22, 2018	**Division:** Energy Research and Development
KEY: (E) IS ESSENTIAL, (M) IS MARGINAL	

Under the general direction of the manager in the Energy Deployment and Market Facilitation Office, the Energy Generation System Program Specialist I (EGSPS I) is required to have a high degree of skill to be able to lead and be responsible for varied, difficult, and complex technical analyses.

The incumbent will lead the overall planning, development and implementation of the Energy Commission's R&D impact assessment framework. The framework will be used across the Energy Research and Development Division to: 1) estimate the net economic benefits of the Energy Commission's R&D investments in new renewable generation, storage, demand response, energy efficiency technologies and transportation for meeting the state's energy and environmental goals; and 2) facilitate the hand-off of new clean energy technologies funded by the Energy Research and Development Division into "market pull" programs such as rebates, codes and standards, and public procurement. The incumbent should have a high degree of knowledge of technology innovation policy including: 1) how various policy instruments are used and interact with one another to advance new energy technology innovations; 2) the value and intended impact of these policy instruments at various stages of a new technology's development; and, 3) methodologies to both quantitatively and qualitatively measure the intended impacts. A high degree of inter-agency communication and coordination is needed in that this position is designed to facilitate the Energy Commission's on-going role in implementing California's clean energy programs within the Energy Research and Development Division.

WORKING CONDITIONS

The work is performed in an indoor office and meeting room setting involving sitting, standing, and walking. The candidate must work well with people inside and outside the Energy Commission, including members of the general public; perform well under the pressure of deadlines; exercise good listening and communication skills, and prepare quality reports for expert and lay person readers. The candidate will be required to provide oral and written presentations. The candidate must be able to evaluate and prioritize daily workload. Travel is required to attend workshops, hearings and meetings. Additional hours beyond an eight-hour workday or forty-hour workweek may be required. While performing the duties described below, the incumbent will be required to work alone and/or in a team environment, using a personal computer and appropriate Energy Commission software such as word processing, electronic mail and Internet; participate in and lead meetings with other staff and with other agencies.

DUTIES AND RESPONSIBILITIES:

45% Independently plans, organizes, and conducts complicated studies to implement the R&D impact assessment framework. Provides expert consultative services on the feasibility, impact, or potential of a variety of operations, projects or proposals. Performs the most difficult assignments relating to engineering and economic studies of alternative electric generation methods and fuels; evaluate the need for new generation facilities; develop and analyze alternatives to current electric generation methods; evaluate new electric generation technologies and their relationships to present and future resource plans; evaluate the design and approve implementation of generation system models. Researches best practices and peer-reviewed

literature on the value of public RD&D investments, both for the energy sector as well as broader technology sectors. Establishes working relationships with academia and government agencies to design methodologies – including specific metrics – to evaluate the value of public RD&D investments by the Energy Commission. Develops and implements data collection methods across the Division to create a repository of project and program outcomes. (E)

25% Develop tools and frameworks to facilitate the hand-off of EPIC-funded technologies into market pull programs such as rebates, codes and standards and public procurement. Establishes working relationships and arrangements with other Energy Commission divisions, government agencies and private industry to: a) determine the program requirements of applicable market pull programs; b) develop strategies and analytical tools to systematically move Electric Program Investment Charge (EPIC)-funded technologies into these programs; and c) identify potential program modifications to streamline the process. (E)

15% Conducts complex detailed cost-performance modeling of new electric generation, storage and energy efficiency technologies to estimate the technology's cost at scale. Compares the modeled cost-performance to competing solutions to determine the technology's commercial viability. (E)

10% Provides input to the EPIC Annual Report, California Public Utilities Commission Natural Gas Planning Report, Integrated Energy Policy Report (IEPR), Electricity Report and other Energy Commission reports, as necessary, on specific technical and economic milestones achieved by funded R&D projects and portfolio of projects. Provides input into these reports on the value and economic impact of the Energy Commission's public RD&D programs. (E)

5% Performs other duties as required consistent with the specifications of this classification. (M)

SIGNATURES	
I Certify That I Am Able To Perform, With Or Without The Assistance Of A Reasonable Accommodation, The Essential Job Duties Of This Position	
Incumbent Date Elec. Generation System Program Spec. I	Supervisor Date Energy Resources Specialist III (Managerial)