



Game Designer

About CAPTRS

CAPTRS, Center for Advanced Preparedness and Threat Response Simulation, aims to set a new standard for preparedness through next-generation games that equip decision makers with the intuition and systems needed to combat future threats and prevent catastrophic global cascading effects. Our portfolio of games are research-based and focus on the cognitive level in addition to the strategic, operational, and tactical levels.

We are designing games for a wide range of players--public health and healthcare professionals, scientists and engineers, elected officials, community and industry leaders--and to bolster preparedness across all stages in the decision cycle.

Overview of Project

Dr. Lauren Ancel Meyers, co-Founder of CAPTRS, has been selected to lead an international team appointed by the Centers for Disease Control and Prevention (CDC). The team's objective is to advance the analytic toolkit utilized by US public health agencies for the detection, forecasting, and management of future pandemics.

Over the next five years, CAPTRS will play a key role in introducing new tools to the forefront of US emergency response efforts. Our Chief Scientist for gaming, Dr. Francesca de Rosa, will oversee the design and implementation of simulation games to train public health officials in utilizing powerful analytics and collecting data for ongoing tool improvement.

Role

CAPTRS is immediately seeking an outstanding professional game designer to develop a series of game-based exercises to train public health and governmental stakeholders in the use of new analytical tools to support situational awareness and decision-making during emergency responses. The employee will work in collaboration with academic researchers and governmental stakeholders to tailor the training exercises to users' knowledge and skills and to integrate them into a broader curriculum.



This is a one-year position with opportunity for renewal. Applications will be accepted on a rolling basis and evaluated via an accelerated video interview and decision process.

Reports to: The resource will work under the supervision and mentorship of Dr Francesca de Rosa and Professor Lauren Ancel Meyers.

Principal duties:

- a. Development, refinement, validation, and implementation of simulation games to be included in preparedness exercise
- b. Development of data collection and analysis plans for simulation games, including rigorous learning assessments
- c. Support the analysis of the exercise outcomes (i.e., learning outcomes)
- d. Ensure that simulation exercises meet federal requirements, such as Federal Emergency Management Agency, Homeland Security Exercise and Evaluation Program (HSEEP) program
- e. Collaborate with project partners to integrate simulation games in training curricula
- f. Collaborate with project partners to integrate new analytic tools into the simulation games to facilitate improvement and use of tools by public health agencies.
- h. Disseminate results to scientists, public health agencies, and general public via publications, reports, and presentations

Essential qualifications:

- a. University degree and 5 years of expertise or PhD in a quantitative science, social science, cognitive science, computer science, mathematics, engineering, or a related discipline
- b. Ability to work quickly and collaborate with an interdisciplinary and multinational teams
- c. Proven experience in game-based learning and assessment systems
- d. Proven experience in development of games not for entertainment (e.g., serious games or wargames)



Desirable qualifications:

- e. Preference will be given to candidates with knowledge of gaming (or exercises) for crisis preparedness and response, strong coding skills, and interdisciplinary research experience.
- f. Demonstrated experience in operational experimentation analysis
- g. Demonstrated experience in the field of data collection, analysis and assessment, and the drafting of data collection plans and experiment reports
- h. Experience in cognitive engineering, reasoning under uncertainty or cognitive psychology

What You'll Get:

- a. Options for employer-paid benefits
- b. Collaborating and contributing innovative ideas with an accomplished and passionate team.
- c. Remote work

To apply send resume and cover letter to apply@captrs.org