

Dear Colleague,

PROGRAM DIRECTOR VACANCY FOR CONTROL, NETWORKS, & COMPUTATIONAL INTELLIGENCE (CNCI) PROGRAM

We are pleased to announce one opening for senior-level engineering researcher/educator to serve as Program Director for the **Control, Networks, & Computational Intelligence (CNCI) Program** in the **Electrical and Communications Systems (ECS) Division** of Engineering Directorate at NSF. The Program Director position is a temporary assignment for one or two years as a visiting Engineer or under Intergovernmental Personnel Assignment (IPA "rotator position") or as a Temporary Federal Employee. The desired starting date for this position is in the Spring of 2001.

The ECS Division addresses fundamental research and education issues underlying both the component technologies and systems principles of complex engineering systems and applications. The CNCI Program supports fundamental research and education endeavors underlying analysis and design of complex engineering systems. CNCI promotes the development of systems technology in general, with an emphasis on technologies for modeling, learning, decision-making, and control. It also encourages the use of novel integrative systems as important engineering testbeds.

The Program Director position provides an opportunity for leadership within CNCI in the development of engineering systems aimed at the design and management of complex network systems, such as electric power grids and transport networks. The position will also focus ECS contributions to large-scale problems involving energy and the environment.

The candidate should be knowledgeable in the mathematical and statistical principles needed to support an innovative and cross-disciplinary effort, accounting for the multilevel, stochastic, nonlinear and dynamic nature of network systems, as well as human interfaces, economic considerations and new thrusts in information technology. Issues such as learning, optimization of performance over time, near-real-time computing, stability and simulation methodology are all addressed in this effort. The candidate should also have a broad understanding of new technologies relevant to energy and the environment.

Prospective applicants should have a breadth of technical knowledge, good communications skills, and an ability to work with others. It is expected that the applicant will have specific experience in some of the areas mentioned above but will have a combination of interests in these areas to work in a team environment and to develop the synergy expected in the CNCI program. An interest in working with the engineering and scientific community to enhance the effectiveness of research and educational programs is important. The selected individual will develop close interactions with the Electronic, Photonic, and Device Technologies (EPDT) Program in ECS, as well as provide an effective liaison with other Programs in the Engineering Directorate and other Directorates in NSF.

The Program Director position at the National Science Foundation provides a challenging experience and an excellent opportunity to encourage and support engineering research and education. The individual will work with other Program Directors in formulating research strategies, developing cooperation among government, academia, and will provide leadership within NSF and the research community. The positions require a Ph.D. with a minimum of six years of academic, government, or industry experience. We are very interested in attracting qualified women and underrepresented minority candidates to this positions.

We would appreciate any nominations that you may have for suitable candidates. Should you or your colleagues be interested in these positions, please contact the search committee coordinator, Dr Radhakisan Baheti rbaheti@nsf.gov; and forward a curriculum vita to him by January 19, 2001. Applications will be immediately reviewed after this date, though the position will remain open until filled.

For questions or further information, please feel free to contact me at:
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