

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 the 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 January 15, 2000.

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 Directors possess complementary technical interests and work as a team to manage the programs research activities.

The Program Director should have a breadth of technical knowledge, good communications skills, and an ability to work with others. An interest in working with the scientific community to enhance the effectiveness of research and educational programs is important. Technical expertise in this position is described below. It is expected that the candidate will have specific experience in some of the areas mentioned below 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.

The CNCI Program emphasizes fundamental research and education endeavors underlying analytical, knowledge-based, and computational methods for modeling, simulation, optimization, and control of complex engineering systems. Specific applications areas of interest include large-scale distributed systems and networks, such as wireless and optical communications, and manufacturing; micro and nano systems; and connections to biological systems.

The candidate for this position should have broad technical interest in modeling, simulation, distributed computation, and communications for engineering systems with specific expertise in the application of high performance computation to engineering modeling and simulation problems. Interest in discrete-event modeling, sensor and imaging systems, and control and computational issues in communications networks and multi-media systems are desirable. The selected individual will work in a team environment within the CNCI Program, and will develop close interactions with the Electronic, Photonic, and Device Technologies (EPDT) Program in ECS. They will also 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. This position requires 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 position.

We would appreciate any nominations that you may have for suitable candidates. Should you or your colleagues be interested in this position, please contact the search committee coordinator, Dr. Radhakisan Baheti, rbaheti@nsf.gov; and forward a curriculum vita to him by October 20, 2000. 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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