

## **U.S. NRC Nuclear Education Faculty Development Program at MIT**

Given the resurgence of interest in the education offered by the NSE department at MIT, the highest priority is given to the recruitment of a new generation of nuclear science and engineering faculty. The NRC young faculty development program would be an invaluable support to the department's ambitions of attracting and especially retaining young faculty members. This proposal will address the retention and increasing the chances of success of the two recent junior faculty hires. These exceptional junior faculty members were selected through a search of international scope seeking the best-qualified candidates whose research and teaching growth interests can coincide with the mission of our department at MIT. The faculty development program in the NSE department will include mainly the initiation of sustainable and new research programs and enhancement of the educational curriculum in their respective areas. Both in teaching and in research, we expect that the faculty development program will also increase the collaboration, visibility, and impact of the work of these young faculty members with prominent institutes and industry outside of MIT. This is an essential factor for establishing and growing the programs of these young faculty members. A primary mechanism that we will instigate to help the young faculty members succeed during the NRC-supported faculty development is close mentoring by a committee of more experienced faculty members. The objective of this mechanism will be to provide the junior faculty with constructive criticism and with opportunities which will enhance their career success. This commitment is not only for the proposed NRC faculty development program but also for our organizational focus to junior faculty development.