

Postdoctoral Researcher Mentoring Plan

One postdoctoral fellow will be funded by this project. The ultimate goal for the postdoctoral fellow is to become an independent researcher or tenure track faculty member at a research university. This postdoctoral fellow's development will be enhanced through a program of structured mentoring activities to cultivate skills such as ¹writing research proposals to federal agencies and companies, ²teaching and mentoring students, ³writing peer-reviewed research articles, and ⁴acquiring expert knowledge from the scientific literature in our research areas. The mentoring plan will follow the guidance of the National Academies of Science, Engineering, and Medicine (NASEM) to fulfill this goal. Our mentoring plan will include the following:

- At the beginning of this proposed project, PI Devetsikiotis will work with the postdoc to establish and implement an individual development plan, which will include a description of the postdoc's research goals, plans to obtain individual funding, and courses they could develop and teach as a part of this plan. This plan will be reviewed on a regular basis.
- The postdoctoral fellow will attend at least one grant writing workshop every year (e.g., NSF Grants Conference, National Postdoctoral Association annual conference) to learn the state of current funding opportunities as well as new and current policies and procedures. The PI and co-PI will also involve the postdoc in writing grants.
- Each year, the PI will encourage the postdoc to attend one seminar or workshop to enhance their professional career opportunities *and* one IEEE/ACM conference to present their scientific research (travel funds are allocated in the budget).
- The postdoctoral fellow will be involved in training and mentoring undergraduate and graduate students involved in the project. In addition, they will be involved in recruiting and interviewing new students to the Internet of Things (IoT) laboratory.
- With the PI, the postdoctoral fellow will have the opportunity to visit prestigious research institutions in the United States, including the Los Alamos and Sandia National Laboratories located in New Mexico, to acquire knowledge and practical skills, and to establish collaborative partners.