Scientist III R&D - Advanced Sensors and Microsystems  
Job Number: 00094486

Honeywell International is a $34B diversified technology and manufacturing global leader with a long and demonstrated heritage of both innovation and achievement. Its biggest business division, Honeywell Aerospace, is a leading global provider of integrated avionics, engines, systems and service solutions for aircraft manufacturers, airlines, business and general aviation, military, space, and airport operations.

This position will work within the Engineering and Technology (E&T) segment of Honeywell Aerospace, known as Advanced Technology, comprising a staff of prestigious Engineers and Scientists, focusing their efforts on the inception, development, and prototyping of new technologies to a level required for product development.

Description
This opening is for a Ph.D.-level scientist or engineer who will pursue applied research in the area of advanced sensing, microsystems, and materials technologies in support of Honeywell’s Aerospace businesses. The successful candidate will be expected to develop innovative game-changing device and microsystem concepts; fabricate and test such devices; work closely with customers to identify requirements; write and win contracts proposals; and develop new technologies for future products.

The candidate must have a demonstrated record of sustained superior performance in the design, fabrication, and test of innovative, high-performance sensing devices and microsystems. She/he must be able to demonstrate a high-level of understanding of the physics of such devices and microsystems and be able to model such devices using first principles, physics equations, and simulation tools, and translate these modeling results into improvements in device and microsystems performance.

The candidate must have strong leadership and organizational skills. She/he must be able to draw up technology development roadmaps and plans; manage their tasks, including budgets and schedules; direct technician work; and determine engineering risk and develop risk mitigation plans.

The successful candidate will be expected to write and win government R&D contracts and to promote internally-funded projects.

Candidates must have experience in one or more of the following areas:

- atomic and/or quantum devices and systems;
- optical, electro-optical, and photonic devices systems;
- RF devices and circuits;
- MEMS device design, processing, and testing;
- Microsystem integration and packaging;
- Nanotechnology;
- Applications include but are not limited to: inertial sensor and systems; precision timing and frequency standards; avionics systems; RF communications; system health monitoring; and chemical and biological sensing.

This position reports to the Sr. Technology Manager of Advanced Sensing Technologies. Relocation Assistance is available for this position.
BASIC QUALIFICATIONS

- The candidate must have a Ph.D. degree in Physics, Electrical Engineering, or equivalent science or engineering degree.
- The candidate must have a demonstrated record of sustained superior performance in the modeling, design, fabrication, and test of innovative, high-performance sensing devices and/or microsystems either in an academic, government, or industrial research environment.
- The candidate must be able to travel (10-20%).
- The candidate must be a US citizen, with the necessary background to successfully procure a U.S. security clearance if required or she/he must be a permanent resident, already in the naturalization process, expecting citizenship in the next 12 months or so.
- The candidate must have strong communication and presentation skills.

Candidates must have experience in one or more of the following areas:

- atomic and/or quantum devices and systems;
- optical, electro-optical, and photonic devices systems;
- RF devices and circuits;
- MEMS device design, processing, and testing;
- Microsystem integration and packaging;
- Nanotechnology;
- Applications include but are not limited to: inertial sensor and systems; precision timing and frequency standards; avionics systems; RF communications; system health monitoring; and chemical and biological sensing.

ADDITIONAL QUALIFICATIONS

- It is desirable that the candidate have experience working within a multi-disciplinary team project.
- Prior experience working on government R&D projects from DARPA or DOD; NASA; Homeland Security; or classified U.S. government agencies is desirable.
- Prior experience making technical presentations to customers or at technical conferences is desirable.
- Record of technical publications and/or patents is desirable.
- Prior experience in contributing to or solely involved in the development of a grant proposal would be desirable.

As an Equal Opportunity Employer, we are committed to a diverse workforce.

To apply for the position,

1. Please go to: http://www.honeywell.com/careers/jobsearch.html or, copy and paste the following link to your Browser’s address box: https://honeywell.taleo.net/careersection/9/jobdetail.ftl?lang=en&job=1024534
2. Look for Requisition # 94486
3. Apply online with a Word-formatted resume detailing your relevant coursework and experience.