

Post-Doctoral Research Associate
Old Dominion University

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Posted Oct. 23, 2023, set to expire Oct. 31, 2024

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| Job Title | Post-Doctoral Research Associate |
| Department | BIOELECTRICS START_UP G. SLAUGHTER |
| Institution | Old Dominion University Norfolk, Virginia |
| Date Posted | Oct. 23, 2023 |
| Application Deadline | Open until filled |
| Position Start Date | Available immediately |
| Job Categories | Post-Doc |
| Academic Field(s) | Electrical and/or Electronics Bioengineering (all Bio-related fields) |
| Job Website | https://jobs.odu.edu/postings/17112 |
| Apply By Email | |
| Job Description | |

Job Description

The Center for Bioelectronics at Old Dominion University is seeking outstanding candidates for a post-doctoral research associate position with a focus on biosensor & bioelectronics development and organic materials integration. *This position is a non-permanent appointment, renewable each year up to a max of two years.* The successful candidate will make key contributions to process development for polymeric/ composite materials to integrate sensors and bioelectronic devices. The individual will be responsible for designing, documenting, and implementing materials synthesis techniques pertaining to polymeric films, “smart” materials exhibiting multi-functionality, the design and development of biosensors and bioelectronic devices, and circuit design of wireless implantable and wearable devices. In addition, the qualified individual will play a key role in evaluating aging and compatibility of novel materials for implantable and wearable applications in broad collaboration with other researchers in the

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lab. Finally, the candidate is expected to serve as a mentor for technicians and students.

- Deep technical skills and knowledge of developing novel biosensor diagnostics and therapeutic devices using principles, materials, and structures that are implantable and wearable.
- Outstanding written and oral communication skills, as evidenced by a strong academic publication record and presentations at national conferences in a specific technical area.
- Ability to work on multiple projects with established deliverables, milestones, timelines and requirements.
- Ability to work and communicate effectively as part of a multi-disciplinary team of engineers, chemists, materials scientists, etc.
- A solid background in principles of electrical circuits and microfabrication processes.
- Experience with wearable and implantable sensor development, and other circuit development techniques.
- Understand the basic processing, properties and mechanics of soft materials.
- Experience with technical writing in the form of manuscripts, reports, standard operating procedures, and other documentation related to research, process development and associated specifications.
- Experience in working with Biosafety Level-2 (BSL-2), proficiency in standard cell- and molecular-biological techniques, and real-time imaging of biosensors.

Minimum Qualifications - Education or training

A Ph.D. in Biomedical Engineering, Electrical Engineering, Materials/Polymer Science, Chemistry, Materials Engineering, or a related field is required.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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