**Research Associate position**

Professor Balachandran’s research group in the Departments of Materials Science and Engineering and Mechanical and Aerospace Engineering at the University of Virginia is seeking to fill a Research Associate position to study the computational design of materials using density functional theory (DFT) methods. The successful candidate, under general oversight of the principal investigator, will develop novel approaches that integrate DFT with machine learning methods to accelerate the search and discovery of novel materials.

Candidates must have a PhD in materials science, physics, or a related field and be familiar with most or all of the following research areas: quantum materials, thin films and heterostructures, surfaces and interfaces, dielectrics and ferroelectrics, phonons and phonon-related properties, and machine learning. Proficiency in DFT codes such as Quantum ESPRESSO and VASP is essential. Experience in machine learning methods is not a mandatory requirement for applying to this position, but desirable. A familiarity with programming languages such as Python and R is desirable. Good oral and written communication skills, as well as attention to detail, are essential.

Additional responsibilities include: performing collaborative research and participating in mentoring students as well as helping to draft proposals, reports, and research papers.

The appointment will be for one year, renewable for an additional year pending satisfactory performance.

To apply, visit https://jobs.virginia.edu and search job posting number 0622507. Complete an online candidate profile and attach a cover letter indicating research interests, a detailed curriculum vitae, and contact information for three references.

For additional information about the position, please contact Prof. Prasanna V. Balachandran at pvb5e@virgina.edu. For additional information about the application process, please contact Jeannie Reese at jsv7u@virginia.edu.

The University of Virginia is an affirmative action/equal opportunity employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.