

**JOB OPPORTUNITY: Postdoctoral openings at the Center for Autonomous Materials Design – Duke University (Stefano Curtarolo’s group).**  
**LOCATION: Durham, NC USA.**

The group of Prof. Curtarolo at the Center for Autonomous Materials Design at Duke University, USA has open postdoctoral positions in computational materials design. The group is at the forefront of the development of automatic computational methods for the discovery of materials with technological applications. More information about the research can be found at [aflow.org](http://aflow.org) and [materials.duke.edu](http://materials.duke.edu).

Current openings are in (examples of references).

**Ultra-high-temperature plasmonic materials for energy applications**

<https://www.nature.com/articles/s41467-022-33497-1>

**Discovery/design of high-entropy ceramics and other disordered systems**

<https://link.springer.com/article/10.1557/s43577-022-00281-x>

<https://www.nature.com/articles/s41467-021-25979-5>

<https://www.nature.com/articles/s41578-019-0170-8>

<https://www.nature.com/articles/s41467-018-07160-7>

<https://www.sciencedirect.com/science/article/pii/S1359645422009697>

Check our website at <http://materials.duke.edu>

Successful candidates should have:

- An excellent understanding of thermodynamics and kinetics of materials, solid-state physics, crystallography/group-theory, and inorganic chemistry.
- Solid communication skills, both verbal and written.
- Strong programming skills in C++, python, LaTeX, good knowledge of Unix systems, and experience using materials data repositories such as AFLOW.
- Proven experience in VASP, Quantum Espresso, FHI-AIMS, or other ab-initio code. TurboEELS is a plus.
- A doctorate degree in Materials Science, Physics, Chemistry, or related disciplines. Graduate students near completion of their Ph.D. are welcome and invited to apply.

Potential candidates should send one PDF file named “PDOC-202302\_Lastname\_Firstname.pdf” containing: cover letter, curriculum vitae and the names, emails, and phone numbers of three (or more) references to [jobs@materials.duke.edu](mailto:jobs@materials.duke.edu), subject line “PDOC-202302: Lastname Firstname”. Only PDF material will be considered.

The location of the position is Durham, NC USA. Occasional travel is required. Starting date can be negotiated. The search will continue until the positions are filled.

*Duke University is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual's age, color, disability, gender, gender expression, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, or veteran status.*

*Duke aspires to create a community built on collaboration, innovation, creativity, and belonging. Our collective success depends on the robust exchange of ideas—an exchange that is best when the rich diversity of our perspectives, backgrounds, and experiences flourishes. To achieve this exchange, it is essential that all members of the community feel secure and welcome, that the contributions of all individuals are respected, and that all voices are heard. All members of our community have a responsibility to uphold these values.*