

Postdoctoral Position in Phase Field Modeling of Oxide
Film Growth
Purdue University

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Posted Jan. 18, 2021, set to expire May 18, 2021

Job Title	Postdoctoral Position in Phase Field Modeling of Oxide Film Growth
Department	School of Materials Engineering https://engineering.purdue.edu/MSE
Institution	Purdue University West Lafayette, Indiana
Date Posted	Jan. 18, 2021
Application Deadline	Position open until filled.
Position Start Date	When the suitable candidate has been identified.
Job Categories	Post-Doc
Academic Field(s)	Mechanical Engineering
Job Website	https://engineering.purdue.edu/MSE
Apply By Email	aelazab@purdue.edu

Job Description

The Materials Theory Group at the School of Materials Engineering of Purdue University has a postdoctoral opening in the area of phase field modeling of oxide film growth. The postdoc will use the phase field approach to investigate the growth of metal oxide films in an oxidizing environment, emphasizing the film grain morphology, composition, and stress distribution. The ideal candidate will have a strong background in phase field modeling with elastic effects and excellent computational skills. For inquiry, please email Professor Anter El-Azab (aelazab@purdue.edu). This position is part of a collaborative project with a materials research and software development company, and it will be available as early as April 1, 2021. The position will remain open until filled. Interested candidates can send a curriculum vita with list of publications, about half a page statement of research interests, and the names and contact information of at least two references. The Materials Theory Group performs theoretical and computational research in the areas of dislocation dynamics and mesoscale plasticity, radiation effects in materials, phase field method and applications to microstructure evolution in

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materials, phonon and electron thermal transport in crystalline solids, and computational methods for materials science and mechanics.

EEO/AA Policy

Purdue University is an EOE/AA employer. All qualified individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

Contact Information

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

Contact Professor Anter El-Azab
School of Materials Engineering
Purdue University
701 West Stadium Avenue
West Lafayette, IN 47907-2045

Phone Number 765-496-6864

Contact E-mail aelazab@purdue.edu