

Postdoc position in investigating protecting mechanism of soybean-based protectant for cementitious materials exposed to deicing salts at Drexel University

Advanced and Sustainable Infrastructure Materials Laboratory (ASIM lab) is seeking for an outstanding candidate for an open postdoctoral position starting Winter 2021. Special emphasis is placed on recruiting candidate with a Ph.D. in materials science, civil engineering, chemical engineering, or related fields. Focus is placed on candidates with a demonstrated expertise in materials characterization using experimental and analytical techniques.

The successful candidate will work on applying advanced characterization techniques to understand the protecting mechanism of soy methyl ester-polystyrene (SME-PS) on cementitious materials exposed to deicing salts. Methods of interest include: (i) isothermal calorimetry analysis of cementitious materials (ii) protecting performance evaluation of SME-PS (iii) and microstructural characterization to develop a model for SME-PS protection in cementitious materials.

The candidate will work in the group of Professor Farnam, in a strong collaborative environment with other professors in CAEE, MSE, and MEM departments and students at ASIM lab. More information can be found at: <http://www.asim-lab.com/>

Required qualifications:

- A Ph.D. degree from a reputable university in a topic of relevance
- Strong expertise in advanced materials characterization techniques demonstrated by publication records,
- An interest in pursuing a research career,
- An ability to work in an interdisciplinary team,
- An interest in working in a fast-paced research environment

How to apply:

If you meet the above requirements and are interested in this position, please provide by email (yfarnam@drexel.edu) a detailed resume, a short personal statement explaining your scientific and research interests, and contact information for three referees in support of your application (as PDF files).

Recruitment will remain open until the position is filled.

Contact:

Prof. Amir Yaghoob Farnam – yfarnam@drexel.edu

Advanced and Sustainable Infrastructure Materials Laboratory (ASIM lab)

Department of Civil, Architectural and Environmental Engineering

Drexel University

3141 Chestnut Street, Philadelphia, PA 19104