

Seeking a qualified candidate for post-doctoral position in continuum modeling of field problems (e.g., transport in porous media, corrosion, geochemical processes)

Oregon State University is seeking a postdoctoral scholar starting in August 2018 (open until filled). Candidates are required to have a Ph.D. in civil engineering, materials science/engineering, chemical engineering or a closely related discipline with expertise in continuum modeling of field problems (e.g., transport in porous media, corrosion, geochemical processes). Researchers who have experience in code-level FEM development (e.g., Fenics Project, Moose Framework, or DiffPack) are particularly encouraged to apply.

The successful candidate will work on the investigation of multi-mechanics/multi-species reactive-transport in cementitious porous domains in which the processes will be coupled with other surface phenomena such as metallic corrosion. Experience in thermodynamic modeling (e.g. using GEMS, Preeqc) is a benefit. For reference, applicants are referred to the following publications:

- Karadakis, K., Jafari Azad, V., Ghods, P., Isgor, O.B. (2016). Numerical investigation of the role of mill scale crevices on the corrosion initiation of carbon steel reinforcement in concrete, J. of Electrochemical Society, 163(6): C306-C315.
- Jafari Azad, V., Li, C., Verba, C., Ideker, J. H., Isgor, O.B. (2016). A COMSOL–GEMS interface for modeling coupled reactive-transport geochemical processes, Computers & Geosciences, 92: 79-89.

For additional information about the activities in our research group, please visit:

<http://web.engr.oregonstate.edu/~isgorb/>

This is a 1-year appointment, however it can be extended based on satisfactory performance and mutual agreement. If you meet the aforementioned requirements, please email the following documents in a single PDF file (Word documents will not be opened) to the contact listed below:

- A detailed CV
- A one-page statement describing your background and how you fit the advertised position
- Contact information for three referees

The subject line of your email should contain the following text: "Post-doctoral scholar in continuum modeling (*your last name*)."

Please note that only the qualified candidates with the required expertise will be contacted.

Contact:

O. Burkan Isgor
Professor and John and Jean Loosely Faculty Fellow
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(And the Materials Science Program)
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Oregon State University, as an institution of higher education and as a community of scholars, is committed to eliminating discrimination and providing equal opportunity in education and employment. More information on OSU's EEO/AA policy can be found in the following

link: <http://hr.oregonstate.edu/sites/hr.oregonstate.edu/files/jobs/eo-non-discrimination.pdf>