The Department of Materials Science and Engineering at The Ohio State University (OSU) invites applications for four tenure-track positions in the areas of 1) joining of advanced materials and 2) advanced imaging and analysis of materials, and 3) functional materials for energy storage and harvesting. Appointments will be at the assistant and associate professor levels depending on the qualifications and experience of the selected candidates. Three of the positions are partially funded by the OSU Discovery Themes, a significant faculty hiring investment in key thematic areas in which the university can build on its culture of academic collaboration to make a global impact.

**JOINING OF ADVANCED MATERIALS:**

Two positions in joining of advanced materials will support the Welding Engineering Program, which offers degrees at the BS, MS, and PhD levels and is the only ABET-accredited welding engineering program in North America. OSU has strong and sustained activities in advanced materials and manufacturing that include the Manufacturing & Materials Joining Innovation Center (MA2JIC), one of the largest NSF Industry/University Cooperative Research Centers. We welcome outstanding applicants with interests in one or more areas such as welding/joining process technology, welding metallurgy, computational materials modeling, process modeling, structural design, structural integrity, fitness-for-service, microjoining, automation and robotics, and nondestructive evaluation. Outstanding candidates will be considered for appointment to the newly endowed Lincoln Electric Professorship.

**ADVANCED IMAGING AND ANALYSIS OF MATERIALS:**

The position in advanced imaging and analysis of materials will support the Center for Electron Microscopy and Analysis (CEMAS, cemas.osu.edu), a multi-million dollar, world-leading facility to drive innovative teaching, learning, and research in materials for engineering, medicine, and physical and biological sciences. We welcome outstanding applicants with interests in areas such as multiscale correlative imaging, high-resolution imaging, analytical electron microscopy, advanced tomography and in-situ experimentation for the characterization of materials. This position is part of the Materials and Manufacturing for Sustainability Discovery Theme, and will be part of a world-class cluster of excellence that spans multiple departments and colleges.

**FUNCTIONAL MATERIALS FOR ENERGY STORAGE AND HARVESTING:**

The position in functional materials for energy storage and harvesting is part of a multi-departmental cluster hiring strategy within the Materials and Manufacturing for Sustainability Discovery Theme at OSU. We welcome outstanding applicants in all areas of experimental research relevant to functional materials for energy storage, conversion and harvesting, including chemical, ionic, thermal and electronic transport. The position is specifically included in a cohort focused on energy storage and related technologies that connect materials with chemistry and systems and we seek superb candidates who have an interest in and penchant for interdisciplinary research. This hire is central to the creation of a new, multidisciplinary energy storage research hub that is part of a world-class network of laboratories and centers, ranging from electron microscopy to nanofabrication, to energy conversion and storage systems testbeds that involves faculty from multiple departments.

**QUALIFICATIONS:**

We seek individuals who are ardent discoverers and passionate teachers and mentors, with demonstrated records of scholarship, collaboration, and evidence or promise for interdisciplinary leadership in an academic and/or R&D environment. Candidates must have an exceptional record of research accomplishment, strong evidence or promise for outstanding mentorship and teaching, and a clear potential for future contributions and leadership. A doctoral degree in materials science and engineering or in a related field appropriate to the scope of the position of interest is required. The successful candidate will be expected to develop and sustain active sponsored research programs, teach core undergraduate and/or graduate courses, and develop new graduate courses related to their research expertise. The candidate should have experience developing or working in interdisciplinary research teams and experience mentoring members of underrepresented groups. The anticipated start date is August 2016. Screening of applicants will begin immediately and will continue until the positions are filled.

**ABOUT OHIO STATE:**

OSU is an equal opportunity employer and is committed to establishing a culturally and intellectually diverse environment, encouraging all members of our learning community to reach their full potential. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation or identity, national origin, disability status or protected veteran status. We are responsive to dual-career families and strongly promote work-life balance to support our community members through a suite of institutionalized policies. We are a NSF Advance Institution and a member of the Ohio/Western Pennsylvania/West Virginia Higher Education Recruitment Consortium.

**HOW TO APPLY:**

Interested candidates should submit a complete curriculum vitae, separate 2-3 page statements of research and teaching goals, and the names, postal addresses, and e-mail addresses of four references electronically. Applications should be submitted to the appropriate email address as indicated below:

- **Joining of advanced materials:** eng-mse-welding@osu.edu
- **Advanced imaging and analysis of materials:** eng-mse-facultysearch4@osu.edu
- **Solid state materials for energy conversion and storage:** eng-mse-dtf@osu.edu

We seek individuals who are ardent discoverers and passionate teachers and mentors, with demonstrated records of scholarship, collaboration, and evidence or promise for interdisciplinary leadership in an academic and/or R&D environment. Candidates must have an exceptional record of research accomplishment, strong evidence or promise for outstanding mentorship and teaching, and a clear potential for future contributions and leadership. A doctoral degree in materials science and engineering or in a related field appropriate to the scope of the position of interest is required. The successful candidate will be expected to develop and sustain active sponsored research programs, teach core undergraduate and/or graduate courses, and develop new graduate courses related to their research expertise. The candidate should have experience developing or working in interdisciplinary research teams and experience mentoring members of underrepresented groups. The anticipated start date is August 2016. Screening of applicants will begin immediately and will continue until the positions are filled.

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