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| Center | Interdisciplinary Research Center for Sustainable Energy Systems (IRC-SES) |
| Job Title | Post-Doctoral Fellow |
| Job Description | <p>The IRC-SES (Interdisciplinary Research Center for Sustainable Energy Systems) is offering Post-Doctoral Fellowships to exceptional candidates with a robust academic and research foundation in high-impact fields. These fields include advanced materials for renewable energy (solar cells, solid-state, sodium-ion, redox flow batteries) and their resource utilization, comprehensive battery management (thermal and other aspects), power systems and grid integration technologies (control and protection), hybrid systems utilizing renewable energy, solar energy applications in cooling and desalination, EV motor drives and EV chargers, the application of IR 4.0 technologies (IoT, data analytics, cloud/edge computing) for intelligent energy system management, energy economics, policies, and regulations, as well as the evaluation of the environmental and social impacts of energy systems.</p> |
| Job Responsibility | <ul style="list-style-type: none">• Conduct rigorous research within their chosen area of sustainable energy systems, encompassing experimental design, data analysis, and interpretation.• Disseminate research findings through high-quality publications in peer-reviewed journals and presentations at conferences.• Collaborate effectively within an interdisciplinary research team.• Contribute to securing future research funding by assisting with grant proposal preparation.• Engage in teaching and mentoring activities such as supervising student projects or co-lecturing.• Actively work towards the development of marketable products or solutions based on research outcomes, including identifying market needs, evaluating commercial potential, and contributing to intellectual property development.• Participate actively in the center's activities. |
| Qualification | <ul style="list-style-type: none">• Ph.D. in Electrical/ Mechanical/ Chemical/ Energy/ Control/ Architectural and Building Engineering, Materials Engineering/Science, Physics, Chemistry, and Computer/Systems Engineering.• Track record in publishing in the chosen field.• Experience related to research proposal development.• Excellent English communication skills.• Experience in develop prototype and modeling software in relevant area.• Ability to work in a collaborative, multicultural research environment |