

INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

The International Institute for Carbon-Neutral Energy Research (I²CNER) at Kyushu University, Japan is actively seeking candidates for open-rank faculty and post-doctoral research associates on Energy Analysis.

OUTLINE

The International Institute for Carbon-Neutral Energy Research (I²CNER) is one of the World Premier International Research Center Initiative (WPI) Institutes of Japan supported by the Ministry for Education, Culture, Sports, Science and Technology (MEXT). Faculty members and researchers associated with I²CNER are dedicated to the Institute's mission to contribute to the advancement of low carbon emission and cost effective energy systems and improvement of energy efficiency. The array of technologies that I²CNER's research aims to enable includes Solid Oxide Fuel Cells, Polymer Membrane based fuel cells, biomimetic and other novel catalyst concepts, and production, storage, and utilization of hydrogen as a fuel. Our research also explores the underlying science of CO₂ capture and storage or the conversion of CO₂ to a useful product. Additionally, central to I²CNER's mission is the establishment of an international academic environment that fosters innovation through collaboration and interdisciplinary research (fusion). I²CNER is located on the Ito Campus of Kyushu University which houses extensive state-of-the-art experimental and computational facilities.

CURRENT OPENINGS & QUALIFICATIONS

I²CNER is seeking faculty and post-doctoral research associates with experience in energy system analysis in Japan or globally, knowledge of data on current use, costs, and emissions of energy systems and infrastructure, and any significant energy system models including projections for the future. The successful candidates are expected to work in the energy analysis research cluster of the institute and closely collaborate with the corresponding technical clusters. For the faculty candidates, emphasis will be placed on those who can establish and maintain an active and independent research program that is relevant to the energy analysis mission of the Institute, and provide service to the Institute, the university, and the profession.

REQUIRED APPLICATION MATERIALS*

1. Cover letter
2. Application form (located on website)
3. Curriculum vitae that details research experience and interests
4. Research statement: Please discuss in three pages (maximum) any of the following items:
 - a. A quantitative Vision for a low carbon emission energy infrastructure for Japan in 2050.
 - b. Analysis of the potential for Japan to import low carbon fuel or energy. This could include a variety of biofuels or other options.
 - c. Detailed analysis of the Japan electricity grid and infrastructure and how to dramatically reduce carbon emissions through the use of renewable resources and energy storage dealing with the intermittency of renewable energy while meeting Japan's future power needs in cost effective way.
 - d. Analysis of the needs and deployment of a hydrogen infrastructure for Japan for fuel cell vehicles.
 - e. Energy, exergy, carbon emission, and cost analyses of specific I²CNER research projects and other new emerging technologies to quantify the benefits and help provide research directions for I²CNER.
5. List of publications
Separate lists for refereed journal and conference proceeding.
6. Names and contact information of four references

****All materials must be submitted in English.***

SALARY & STARTING DATE

Salary will be commensurate with qualifications and experience. The starting date will be as soon as possible after the closing date.

APPLICATION DEADLINE

- Friday, July 31, 2015, 17:00 (Japan)
- Interviews may take place prior to closing date; however, no final decisions will be made until after this time.

APPLICATION SUBMISSION

Please email your application materials via email attachment to: wpi-office@i2cner.kyushu-u.ac.jp

QUESTIONS?

Please contact the I²CNER Administrative Office at: wpi-office@i2cner.kyushu-u.ac.jp

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FOR MORE INFORMATION

<http://i2cner.kyushu-u.ac.jp/en/recruit/recruit.php>

Kyushu University is an Equal Opportunity/Affirmative Action Employer. The administration, faculty and staff embrace diversity and are committed to attracting qualified candidates who also embrace and value diversity and inclusivity.