



## INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

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*The International Institute for Carbon-Neutral Energy Research (I<sup>2</sup>CNER) at Kyushu University, Japan is actively seeking outstanding candidates for post-doctoral research associate positions*

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### OUTLINE

The International Institute for Carbon-Neutral Energy Research (I<sup>2</sup>CNER) 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 I<sup>2</sup>CNER 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. Amongst the array of technologies that I<sup>2</sup>CNER's research aims to enable is the production, storage, and utilization of hydrogen as a fuel in a hydrogen-based economy. Our research also explores the underlying science of CO<sub>2</sub> capture and storage or the conversion of CO<sub>2</sub> to a useful product. Additionally, central to I<sup>2</sup>CNER's mission is the establishment of an international academic environment that fosters innovation through collaboration and interdisciplinary research (fusion). I<sup>2</sup>CNER is located on the Ito Campus of Kyushu University which houses extensive state-of-the-art experimental and computational facilities.

### QUALIFICATIONS & CURRENT OPENINGS

I<sup>2</sup>CNER is seeking post-doctoral research associates with experimental and/or computational expertise in the physics, chemistry, mechanics, or materials science aspects of:

- Hydrogen Materials Compatibility (Mechanics/materials, fatigue and fracture)
- Thermal Science and Engineering (Thermophysical properties, heat and mass transfer, thermophysical properties for highly efficient energy utilization)
- CO<sub>2</sub> Capture and Utilization (Fundamental chemistry and material science issues underlying molecular capture/separation)
- CO<sub>2</sub> Storage (Geologic or sub-seabed)

Post-doctoral research associates will join research groups related to their field of expertise and education. A particular emphasis will be placed on candidates capable of carrying out interdisciplinary research and interacting with researchers across the boundaries of the Institute's thematic research clusters.

### REQUIRED APPLICATION MATERIALS\*

1. Cover letter
2. Application form (located on website)
3. Curriculum vitae that details research experience and interests
4. Research proposal (please use website template)
5. List of publications
  - a. 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**

- Monday, September 30, 2013, 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](mailto:wpi-office@i2cner.kyushu-u.ac.jp)

**QUESTIONS?**

Please contact the I<sup>2</sup>CNER Administrative Office at: [wpi-office@i2cner.kyushu-u.ac.jp](mailto: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.*